2001 LEGACY SERVICE MANUAL

QUICK REFERENCE INDEX

SUPPLEMENT FOR 6 CYLINDER ENGINE MODEL

This service manual has been prepared to provide SUBARU service personnel with the necessary information and data for the correct maintenance and repair of SUBARU vehicles.

This manual includes the procedures for maintenance, disassembling, reassembling, inspection and adjustment of components and diagnostics for guidance of experienced mechanics.

Please peruse and utilize this manual fully to ensure complete repair work for satisfying our customers by keeping their vehicle in optimum condition. When replacement of parts during repair work is needed, be sure to use SUBARU genuine parts.

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All information, illustration and specifications contained in this manual are based on the latest product information available at the time of publication approval.

FUJI HEAVY INDUSTRIES LTD.

2001 LEGACY SERVICE MANUAL

QUICK REFERENCE INDEX

SUPPLEMENT FOR 6 CYLINDER ENGINE MODEL

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FOREWORD

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1. Foreword SA01674

A: FOREWORD SA01674G21

These manuals are used when performing maintenance, repair, or diagnosis of the Subaru Legacy.

Applied model: BE***** and BH***** from 2001MY.

The additional manuals below are also available: AUTOMATIC TRANSMISSION SERVICE MANUAL (Pub. No. G0853ZE)

The manuals contain the latest information at the time of publication. Changes in specifications, methods, etc. may be made without notice.

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1. How to Use This Manuals SA02675

A: HOW TO USE THIS MANUALS

SA02675F69

1. STRUCTURE SA02675F6901

Each section consists of SCT that are broken down into SC that are divided into sections for each component. The specification, maintenance and other information for the components are included, and diagnosis information has also been added where necessary.

2. INDEX SA02675F6902

The first page has an index with tabs. And at the end of each section is an alphabetical index.

3. COMPONENTS SA02675F6903

For each component, a composition drawing is included.

4. SPECIFICATIONS SA02675F6904

If necessary, specifications are also included

5. INSPECTION SA02675F6905

Inspections are included to be carried out before and after maintenance.

6. MAINTENANCE SA02675F6906

Maintenance instructions are provided for each component. When multiple components comprise one process, refer to the instructions for that process for each component.

7. DIAGNOSIS SA02675F6907

Tables showing a step-by-step process make it easy to conduct diagnosis.

8. SI UNITS SA02675F6909

Measurements in these manuals are according to the SI units. Metric and yard/pound measurements are also included.

MEMO:

SPECIFICATIONS

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1. Legacy SAOBTO4

A: DIMENSIONS SAOBTO4G28

Model			Sedan	Wagon
			AV	WD
Overall length		mm (in)	4,605 (181.3)	4,680 (184.3)
Overall width		mm (in)	1,695 (66.7)	1,695 (66.7)
Overall height (a	at CW)	mm (in)	1,415 (55.7)	1,515 (59.6)
Compartment	Length	mm (in)	1,965 (77.4)	1,925 (75.8)
	Width	mm (in)	1,440 (56.7), 1,420 (55.9)*2	1,440 (56.7), 1,420 (55.9)*2
	Height	mm (in)	1,155 (45.5)	1,190 (46.9), 1,175 (46.3)*3
Wheelbase		mm (in)	2,650 (104.3)	2,650 (104.3)
Tread	Front	mm (in)	1,460 (57.5)	1,460 (57.5), 1,465 (57.5)*1
	Rear	mm (in)	1,460 (57.5)	1,455 (57.3), 1,465 (57.5)*1
Minimum road clearance	Without catalytic converter	mm (in)	160 (6.3)	165 (6.5), 14.5 (5.7)*1
	With catalytic converter	mm (in)	155 (6.1)	155 (6.1), 140 (5.5)*1
	Australia	mm (in)	155 (6.1)	155 (6.1), 140 (5.5)*1

*1: With pneumatic suspension*2: With leather seat*3: With sunroof

B: ENGINE SAOB704G29

Model		Sedan/Wagon			
		AWD			
		2.0 L	2.5 L		
Engine type		Horizontally opposed, liquid cooled,	4-cylinder, 4-stroke gasoline engine		
Valve arrangement		Overhead camshaft type			
Bore × Stroke	mm (in)	92 × 75 (3.62 × 2.95)	99.5 × 79.0 (3.917 × 3.110)		
Displacement	cm ³ (cu in)	1,994 (121.67)	2,457 (149.9)		
Compression ratio		10.0			
Firing order		1-3-2-4			
Idle speed at Park/Neutral position	rpm	n 700±100			
Maximum output	kW (HP)/rpm	92 (123)/5,600	115 (154)/5,600		
Maximum torque	N·m (kgf-m, ft-lb)/rpm	184 (18.8, 136.0)/3,600	223 (22.7, 164.2)/3,600		

C: ELECTRICAL SAUBTO4G30

Model	Model			Sedan/Wagon		
		AWD				
			2	2.0 L	2.5 L	
Ignition timi	ng at idling speed	BTDC/rpm		10°±1	0°/700	
Spark plug	Type and manufacturer	Without OBD		NGK: BKR6E (\	without catalyst)	
			(CHAMPION: RC10	YC4 (with catalyst)	
				NGK: BKR5E-1	1 (with catalyst)	
		With OBD	RC10YC4 CHAMPION		CHAMPION	
			Alternate RC8YC4 CHAMPION		CHAMPION	
			BKR6E-11 NGK		. NGK	
			K20PR-U11 NIPPONDENSO		NIPPONDENSO	
Generator			12V — 90A		– 90A	
Battery	Type and capacity	For Europe and	MT: 12V — 48AH (55D23L) MT: 12V — 48AH (55D23L)		MT: 12V — 48AH (55D23L)	
	(5HR)	South America			AT: 12V — 52AH (75D23L)	
		Others	12V — 27AH (34B19L)		H (34B19L)	

D: TRANSMISSION SAOB704G31

Model			Sedan/Wagon				
			AWD				
			2.0) L	2.5	5 L	
Transmission typ	be		5MT*1	4AT*2	5MT*1	4AT*2	
Clutch type			DSPD	TCC	DSPD	TCC	
Gear ratio		1st	3.454	2.785	3.454	2.785	
		2nd	2.062	1.545	2.062	1.545	
		3rd	1.448	1.000	1.448	1.000	
		4th	1.088	0.694	1.088	0.694	
		5th	0.825	—	0.825*3, 0.780*4	_	
		Reverse	3.333	2.272	3.333	2.272	
Reduction gear	1st reduction	Type of gear	—	Helical	—	Helical	
(Front drive)		Gear ratio	—	1.000	_	1.000	
	Final reduction	Type of gear	Hypoid	Hypoid	Hypoid	Hypoid	
		Gear ratio	3.900	4.111	3.700*3, 4.111*4	4.111	
Reduction gear	Transfer reduc-	Type of gear	Helical		Helical	_	
(Rear drive)	tion	Gear ratio	1.000		1.000	_	
	Final reduction	Type of gear	Hypoid	Hypoid	Hypoid	Hypoid	
		Gear ratio	3.900	4.111	3.700*3, 4.111*4	4.111	

5MT*1: 5 forward speeds with synchromesh and 1-reverse 4AT*2: Electronically controlled fully-automatic, 4-forward speeds and 1-reverse DSPD: Dry Single Plate Diaphragm

TCC: Torque Converter Clutch *3: Except Australia spec. vehicles *4: Australia spec. vehicles

E: STEERING SAOB704G32

Model	Models with	Models with	Models with		
	185/70R14 tires	195/60R15 tires	205/50R16 tires		
Туре		Rack and Pinion			
Turns, lock to lock	3.	3.2			
Minimum turning circle m (f) Curb to curb: 10.	Curb to curb: 10.5±1.0 (34.5±3.3)			
	Wall to wall: 11.4±1.0 (37.4±3.3)		Wall to wall: 11.5±1.0 (37.7±3.3)		

F: SUSPENSION SAOB704G33

Model	Conventional suspension	Pneumatic suspension
Front	Macpherson strut type, Independent, Coil spring	Macpherson strut type, Independent, Pneumatic suspension with height control
Rear	Multi-link type, Independent, Coil spring	Multi-link type, Independent, Pneumatic suspension with height control

G: BRAKE SAOB704G34

Model	Australia spec. vehicles	Except Australia spec. vehicles	
		LX	Others
Service brake system	Dual circuit hydraulic with vacuum suspended power unit		
Front	Ventilated disc brake		
Rear	Disc brake Drum brake Disc brake		
Parking brake	Mechanical on rear brakes		

H: TIRE SAOBTO4G35

Rim size	$14 imes 5^{1}/_{2} JJ$	15 imes 6 JJ	$16 \times 6^{1/2} JJ$
Tire size	185/70R14	195/60R15	205/50R16
Туре	Steel belted radial, Tubeless		

I: CAPACITY SAOB704G36

Model				Sedan/	Wagon				
			AWD						
			2.0) L	2.5	5 L			
			5MT	4AT	5MT	4AT			
Fuel tank		ℓ (US gal, Imp gal)		64 (16.	9, 14.1)				
Engine oil	Upper level	ℓ (US qt, Imp qt)	4.0 (4.2, 3.5)						
	Lower level	ℓ (US qt, Imp qt)	3.0 (3.2, 2.6)						
Transmission	gear oil	ℓ (US qt, Imp qt)	3.5 (3.7, 3.1)	—	3.5 (3.7, 3.1)	—			
Automatic tra	nsmission fluid	ℓ (US qt, Imp qt)	—	8.4 (8.9, 7.4)	—	9.3 (9.8, 8.2)			
AT differentia	l gear oil	ℓ (US qt, Imp qt)	—	1.2 (1.3, 1.1)	—	1.2 (1.3, 1.1)			
AWD rear differential gear oil		ℓ (US qt, Imp qt)		0.8 (0.	8, 0.6)				
Power steering	ng fluid	ℓ (US qt, Imp qt)		0.7 (0.	7, 0.6)				
Engine coola	nt	ℓ (US qt, Imp qt)	7.0 (7.4, 6.2)	6.9 (7.3, 6.1)	6.8 (7.2, 6.0)	6.7 (7.1, 5.9)			

J: WEIGHT SAOB704G37

1. EUROPE SPEC. VEHICLE SA08704G3703

Model						Sed	an			
						AW	D			
						2.0	L			
					LHD			RHD		
			LX		GL				GL	
			5MT		5MT*2	4AT	*2	5MT*3		4AT*4
Curb weight (C.W.)	Front	kgf (lb)	770 (1,698)	78	5 (1,731)	810 (1,786)		785 (1,731)	8	10 (1,786)
	Rear kgf (lb)		585 (1,290)	60	5 (1,334)	605 (1	,334)	605 (1,334)	6	05 (1,334)
	Total	kgf (lb)	1,355 (2,988)	1,3	90 (3,065)	1,415 (3,120)	1,390 (3,065	5) 1,4	115 (3,120)
Maximum permissible	Front	kgf (lb)			0 (2,095)	950 (2	,095)	950 (2,095)	9	50 (2,095)
axle weight (M.P.A.W.)	Rear	kgf (lb)	950 (2,095) 95		0 (2,095)	950 (2	,095)	950 (2,095)	9	50 (2,095)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,835 (4,046)	1,8	35 (4,046)	1,835 (4	4,046)	1,835 (4,046	5) 1,8	335 (4,046)
Model						Sec	dan			
						AV	VD			
					2.5 L					
				Lŀ	HD			RH	D	
				G	ìΧ			GX	<	
			5MT*5		4AT	*5	Ę	5MT*3	4	AT*3
Curb weight (C.W.)	Front	kgf (lb)	805 (1,775)	830 (1,	,830)	795	5 (1,753)	820	(1,808)
	Rear	kgf (lb)	605 (1,334)	610 (1,	,345)	605	5 (1,334)	610	(1,345)
	Total	kgf (lb)	1,410 (3,10	9)	1,440 (3	3,175)	1,40	00 (3,087)	1,43	0 (3,153)
Maximum permissible	Front	kgf (lb)	950 (2,095)		970 (2,	,139)	950	0 (2,095)		(2,139)
axle weight (M.P.A.W.)	Rear	kgf (lb)			975 (2,150)		975	5 (2,150)	975	(2,150)
	1		1,875 (4,134)		1,875 (4,134)		1,875 (4,134)			

Model					Wagon					
			AWD							
			2.0 L							
				LHD RH						
			LX	G	iL	G	ίL			
			5MT	5MT*2	4AT*2	5MT*3	4AT*3			
Curb weight (C.W.)	Front	kgf (lb)	770 (1,698)	785 (1,731)	800 (1,764)	785 (1,731)	800 (1,764)			
	Rear	kgf (lb)	630 (1,389)	650 (1,433)	650 (1,433)	650 (1,433)	650 (1,433)			
	Total	kgf (lb)	1,400 (3,087)	1,435 (3,164)	1,450 (3,197)	1,435 (3,164)	1,450 (3,197)			
Maximum permissible	Front	kgf (lb)	950 (2,095)	950 (2,095)	950 (2,095)	950 (2,095)	950 (2,095)			
axle weight (M.P.A.W.)	Rear	kgf (lb)	1,030 (2,271)	1,030 (2,271)	1,030 (2,271)	1,030 (2,271)	1,030 (2,271)			
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,895 (4,178)	1,895 (4,178)	1,895 (4,178)	1,895 (4,178)	1,895 (4,178)			

Model					Wa	gon					
					AV	VD					
				2.5 L							
			LHD			RHD					
			G	GX GX*1			λX	GX*1			
			5MT*2	4AT*6	4AT*7	5MT*3	4AT*3	4AT*7			
Curb weight (C.W.)	Front	kgf (lb)	790 (1,742)	820 (1,808)	845 (1,863)	790 (1,742)	805 (1,775)	845 (1,863)			
	Rear	kgf (lb)	655 (1,444)	655 (1,444)	680 (1,499)	655 (1,444)	655 (1,444)	680 (1,499)			
	Total	kgf (lb)	1,445 (3,186)	1,475 (3,252)	1,525 (3,363)	1,445 (3,186)	1,460 (3,219)	1,525 (3,363)			
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	960 (2,117)	980 (2,161)	980 (2,161)	960 (2,117)	980 (2,161)	980 (2,161)			
	Rear	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)			
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,945 (4,289)	1,945 (4,289)	1,970 (4,344)	1,945 (4,289)	1,945 (4,289)	1,970 (4,344)			

*1: Pneumatic suspension equipped models

*2: Includes weight of side airbag

*3: Includes weight of audio and side airbag*4: Includes weight of cruise control, audio and side airbag

*5: Includes weight of air conditioner and side airbag

*6: Includes weight of cruise control, cold weather pack, air conditioner and side airbag
*7: Includes weight of VDC, cruise control, audio, leather interior, cold weather pack, air conditioner, side airbag and sunroof

NOTE:

When any of the following optional parts are installed, add the weight to the curb weight.

Weigh optio		VDC	Cruise control	Air condi- tioner	Sunroof	Leather interior	SRS Airbag	Cold weather	Audio	Rear spoiler	Sports package
par	ts						(Side)	pack			
Front	kgf	6.5	2.1	13.9	10.9	1.8	2.9	0.2	1.8	-0.7	-1.4
	(lb)	(14.3)	(4.6)	(30.6)	(24.0)	(4.0)	(6.4)	(0.4)	(4.0)	(–1.54)	(-3.09)
Rear	kgf	0.1	0.3	-0.1	16.4	3.1	3.0	0.2	0.7	3.2	-3.8
	(lb)	(0.2)	(0.7)	(-0.2)	(36.2)	(6.8)	(6.6)	(0.4)	(1.5)	(7.1)	(-8.38)
Total	kgf	6.6	2.4	13.8	27.3	4.9	5.9	0.4	2.5	2.5	- 5.2
	(lb)	(14.6)	(5.3)	(30.4)	(60.2)	(10.8)	(13.0)	(0.9)	(5.5)	(5.5)	(–11.47)

2. AUSTRALIA SPEC. VEHICLE SA08704G3704

Model				Se	dan					
			AWD							
			2.	0 L	2.5 L					
			G	λX	F	X				
			5MT*1	4AT*2	5MT*2	4AT*2				
Unladen mass (U.M.)	Front	kgf (lb)	780 (1,720)	775 (1,709)	775 (1,709)	785 (1,731)				
	Rear	kgf (lb)	585 (1,290)	585 (1,290)	595 (1,312)	595 (1,312)				
	Total	kgf (lb)	1,365 (3,010)	1,360 (2,999)	1,370 (3,021)	1,380 (3,043)				
Gross vehicle mass	Front	kgf (lb)	930 (2,051)	930 (2,051)	940 (2,073)	940 (2,073)				
(G.V.M.)	Rear	kgf (lb)	970 (2,139)	970 (2,139)	980 (2,161)	980 (2,161)				
	Total	kgf (lb)	1,900 (4,190)	1,900 (4,190)	1,920 (4,234)	1,920 (4,234)				

Model			Wagon							
			AWD							
			2.0) L	2.5 L					
			G	iХ	F	X				
			5MT*1	4AT*2	5MT*2	4AT*2				
Unladen mass (U.M.)	Front	kgf (lb)	775 (1,709)	775 (1,709)	765 (1,687)	780 (1,720)				
	Rear	kgf (lb)	635 (1,400)	635 (1,400)	645 (1,422)	645 (1,422)				
	Total	kgf (lb)	1,410 (3,109)	1,410 (3,109)	1,410 (3,109)	1,425 (3,142)				
Gross vehicle mass	Front	kgf (lb)	930 (2,051)	930 (2,051)	950 (2,095)	950 (2,095)				
(G.V.M.)	Rear	kgf (lb)	1,010 (2,227)	1,010 (2,227)	1,040 (2,293)	1,040 (2,293)				
	Total	kgf (lb)	1,940 (4,278)	1,940 (4,278)	1,990 (4,388)	1,990 (4,388)				

*1: Includes weight of cruise control, audio and air conditioner *2: Includes weight of audio

NOTE:

When any of the following optional parts are installed, add the weight to the unladen mass.

Weigł optio par	nal	VDC	Cruise control	Air condi- tioner	Sunroof	Leather interior	SRS Airbag (Side)	Cold weather pack	Audio	Rear spoiler	Sports package
Front	kgf (lb)	6.5 (14.3)	2.1 (4.6)	13.9 (30.6)	10.9 (24.0)	1.8 (4.0)	2.9 (6.4)	0.2 (0.4)	1.8 (4.0)	-0.7 (-1.54)	-1.4 (-3.09)
Rear	kgf	0.1	0.3	-0.1	16.4	3.1	3.0	0.2	0.7	3.2	-3.8
	(lb)	(0.2)	(0.7)	(-0.2)	(36.2)	(6.8)	(6.6)	(0.4)	(1.5)	(7.1)	(-8.38)
Total	kgf	6.6	2.4	13.8	27.3	4.9	5.9	0.4	2.5	2.5	- 5.2
	(lb)	(14.6)	(5.3)	(30.4)	(60.2)	(10.8)	(13.0)	(0.9)	(5.5)	(5.5)	(-11.47)

3. OTHERS SA08704G3705

Model		-				dan				
			AWD							
				2.0		2.5 L				
				LHD		RHD	Lŀ	ID		
			LX	G	iL	GL	G	iΧ		
			5MT	5MT	4AT	4AT*1	5MT*1	4AT*1		
Curb weight (C.W.)	Front	kgf (lb)	765	775	800	800	785	810		
		-	(1,687)	(1,709)	(1,764)	(1,764)	(1,731)	(1,786)		
	Rear	kgf (lb)	590	610	610	605	610	615		
			(1,301)	(1,345)	(1,345)	(1,334)	(1,345)	(1,356)		
	Total	kgf (lb)	1,355	1,385	1,410	1,405	1,395	1,425		
		-	(2,988)	(3,054)	(3,109)	(3,098)	(3,076)	(3,142)		
Maximum permissible	Front	kgf (lb)	950	950	950	950	950	950		
axle weight (M.P.A.W.)			(2,095)	(2,095)	(2,095)	(2,095)	(2,095)	(2,095)		
	Rear	kgf (lb)	950	950	950	950	975	975		
			(2,095)	(2,095)	(2,095)	(2,095)	(2,139)	(2,139)		
Maximum permissible	Total	kgf (lb)	1,835	1,835	1,835	1,835	1,875	1,875		
weight (M.P.W.)		,	(4,046)	(4,046)	(4,046)	(4,046)	(4,134)	(4,134)		

Model					Wa	gon		
					AV	VD		
				2.0		2.5 L		
			LHD			RHD	LHD	
			LX	LX GL			G	iX
			5MT	5MT	4AT	4AT*1	5MT*1	4AT*2
Curb weight (C.W.)	Front	kgf (lb)	765 (1,687)	775 (1,709)	790 (1,742)	790 (1,742)	780 (1,720)	805 (1,775)
	Rear	kgf (lb)	635 (1,400)	655 (1,444)	655 (1,444)	655 (1,444)	655 (1,444)	655 (1,444)
	Total	kgf (lb)	1,400 (3,087)	1,430 (3,153)	1,445 (3,186)	1,445 (3,186)	1,435 (3,164)	1,460 (3,219)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	950 (2,095)	950 (2,095)	950 (2,095)	950 (2,095)	960 (2,117)	960 (2,117)
	Rear	kgf (lb)	1,030 (2,271)	1,030 (2,271)	1,030 (2,271)	1,030 (2,271)	1,040 (2,293)	1,040 (2,293)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,895 (4,178)	1,895 (4,178)	1,895 (4,178)	1,895 (4,178)	1,945 (4,289)	1,945 (4,289)

*1: Includes weight of audio*2: Includes weight of cruise control and air conditioner

NOTE:

When any of the following optional parts are installed, add the weight to the curb weight.

Weigh optio		VDC	Cruise control	Air condi- tioner	Sunroof	Leather interior	SRS Airbag	Cold weather	Audio	Rear spoiler	Sports package
par	ts						(Side)	pack			
Front	kgf	6.5	2.1	13.9	10.9	1.8	2.9	0.2	1.8	-0.7	-1.4
	(lb)	(14.3)	(4.6)	(30.6)	(24.0)	(4.0)	(6.4)	(0.4)	(4.0)	(-1.54)	(-3.09)
Rear	kgf	0.1	0.3	-0.1	16.4	3.1	3.0	0.2	0.7	3.2	-3.8
	(lb)	(0.2)	(0.7)	(-0.2)	(36.2)	(6.8)	(6.6)	(0.4)	(1.5)	(7.1)	(-8.38)
Total	kgf	6.6	2.4	13.8	27.3	4.9	5.9	0.4	2.5	2.5	- 5.2
	(lb)	(14.6)	(5.3)	(30.4)	(60.2)	(10.8)	(13.0)	(0.9)	(5.5)	(5.5)	(-11.47)

2. OUTBACK SAOB TOS

A: DIMENSIONS SAUBTO5G28

Model			OUTBACK
			AWD
Overall length		mm (in)	4,720 (185.8)
Overall width		mm (in)	1,745 (68.7)
Overall height (a	at CW)	mm (in)	1,580 (62.2), 1,590 (62.6)*3
Compartment	Length	mm (in)	1,925 (75.8)
	Width	mm (in)	1,440 (56.7), 1,420 (55.9)*1
	Height	mm (in)	1,190 (46.9), 1,175 (46.3)*2
Wheelbase		mm (in)	2,650 (104.3)
Tread	Front	mm (in)	1,470 (57.9)
	Rear	mm (in)	1,460 (57.5)*3 , 1,465 (57.7)
Minimum road clearance	Without catalytic converter	mm (in)	195 (7.7)
	With catalytic converter	mm (in)	190 (7.5)
	Australia	mm (in)	200 (7.9)

*1: With leather seat

*2: With sunroof *3: Australia spec. vehicles

B: ENGINE SAOB705G29

Model		OUTE	BACK			
		AWD				
		2.5 L	3.0 L			
Engine type		Horizontally opposed, liquid cooled, 4-cylinder, 4-stroke gasoline engine	Horizontally opposed, liquid cooled, 6-cylinder, 4-stroke gasoline engine			
Valve arrangement	Overhead camshaft type					
Bore imes Stroke	mm (in)	99.5 × 79.0 (3.917 × 3.110)	89.2 × 80.0 (3.512 × 3.150)			
Displacement	cm ³ (cu in)	2,457 (149.9)	3,000 (183.06)			
Compression ratio		10.0	10.7			
Firing order		1 - 3 - 2 - 4	1 - 6 - 3 - 2 - 5 - 4			
Idle speed at Park/Neutral position	rpm	700±100	600±100			
Maximum output	kW (HP)/rpm	115 (154)/5,600	154 (206)/6,000			
Maximum torque	N·m (kgf-m, ft-lb)/rpm	223 (22.7, 164.2)/3,600	282 (378)/4,400			

C: ELECTRICAL SAOB705G30

Model		OUTBACK					
			AWD				
			2.5 L	3.0 L			
Ignition timing at idling BTDC/rpm speed			10°±8°/600				
Spark plug	Spark plug Type and manufacturer		RC10YC4 CHAMPION				
		Alternate	RC8YC4CHAMPION BKR6E-11 NGK K20PR-U11 NIPPONDENSO				
Generator		12V — 90A		12V — 100A			
Battery	Type and capacity (5HR)	For Europe and South America	MT: 12V — 48AH (55D23L) AT: 12V — 52AH (75D23L)	12V — 52AH (75D23L)			
		Others	12V — 27AH (34B19L)				

D: TRANSMISSION SAUBTO5G31

Model				OUTBACK			
			AWD				
			2.5	L	3.0 L		
Transmission typ	e		5MT*1	4AT*2	4AT*2		
Clutch type			DSPD	TCC	TCC		
Gear ratio		1st	3.454	2.73	85		
		2nd	2.062	1.545			
		3rd	1.448	1.000			
		4th	1.088	0.694			
		5th	0.825				
		Reverse	3.333	2.272			
Auxiliary transmis	ssion gear ratio	High	1.000	_			
		Low	1.196				
Reduction gear	1st Reduction	Type of gear	—	Heli	cal		
(Front drive)		Gear ratio	—	1.0	00		
	Final reduction	Type of gear	Hypoid	Нур	oid		
		Gear ratio	3.900*3, 4.111*4	4.444	4.111		
Reduction gear	Transfer reduction	Type of gear	Helical		_		
(Rear drive)		Gear ratio	1.000				
	Final reduction	Type of gear	Hypoid	Нур	oid		
		Gear ratio	3.900*3, 4.111*4	4.444	4.111		

5MT*1: 5×2 forward speeds with synchromesh and 1-reverse

4AT*2: Electronically controlled fully-automatic, 4-forward speeds and 1-reverse DSPD: Dry Single Plate Diaphragm TCC: Torque Converter Clutch *3: Except Australia spec. vehicles *4: Australia spec. vehicles

E: STEERING SAOB705G32

Model		OUTBACK
Туре		Rack and Pinion
Turns, lock to lock		LHD 3.4/RHD 3.0
Minimum turning circle	m (ft)	Curb to curb: 11.2±1.0 (36.7±3.3)
		Wall to wall: 12.0±1.0 (39.4±3.3)

F: SUSPENSION SAOB705G33

Model	OUTBACK			
Front	Macpherson strut type, Independent, Coil spring			
Rear	Multi-link type, Independent, Coil spring			

G: BRAKE SAOB705G34

Model	OUTBACK
Service brake system	Dual circuit hydraulic with vacuum suspended power unit
Front	Ventilated disc brake
Rear	Disc brake
Parking brake	Mechanical on rear brakes

H: TIRE SAOB705G35

Model	OUTBACK
Rim size	$16 \times 6^{1/2} JJ$
Tire size	215/60R16
Туре	Steel belted radial, Tubeless

I: CAPACITY SAOB705G36

Model				OUTBACK				
			AWD					
			2.5	5 L	3.0 L			
			5MT	4/	AT			
Fuel tank ℓ (US gal, Imp gal)			64 (16.9, 14.1)					
Engine oil	Upper level	ℓ (US qt, Imp qt)	4.0 (4.	4.0 (4.2, 3.5)				
	Lower level	ℓ (US qt, Imp qt)	3.0 (3.	2, 2.6)	4.8 (5.1, 4.2)			
Transmissio	n gear oil	ℓ (US qt, Imp qt)	4.0 (4.2, 3.5)	4.0 (4.2, 3.5)				
Automatic tr	ansmission fluid	ℓ (US qt, Imp qt)	—	9.3 (9.	.8, 8.2)			
AT differenti	al gear oil	ℓ (US qt, Imp qt)	—	1.2 (1.3, 1.1)				
AWD rear d	ifferential gear oil	ℓ (US qt, Imp qt)		0.8 (0.8, 0.6)				
Power steering fluid ℓ (L		ℓ (US qt, Imp qt)						
Engine cool	ant	ℓ (US qt, Imp qt)	6.8 (7.2, 6.0)	6.7 (7.1, 5.9)	7.7 (8.1, 6.8)			

J: WEIGHT SAOB705G37

1. EUROPE SPEC. VEHICLE SAOB705G3703

Model			OUTBACK							
			AWD							
				4 cyli	nders		6 cyli	nders		
			Lŀ	HD	RI	HD	LHD	RHD		
	5MT*1	4AT*1	5MT*2	4AT*2	4/	AT				
Curb weight (C.W.)	Front kgf (lb)		815 (1,797)	830 (1,830)	800 (1,764)	815 (1,797)	915 (2,018)			
	Rear	kgf (lb)	675 (1,488)	675 (1,488)	670 (1,477)	670 (1,477)	69 (1,5	95 532)		
	Total	kgf (lb)	1,490 (3,285)	1,505 (3,319)	1,470 (3,241)	1,485 (3,274)		610 650)		
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,010 (2,227)	1,010 (2,227)	1,010 (2,227)	1,010 (2,227)	1,0 (2,2)40 293)		
	Rear	kgf (lb)	1,050 (2,315)	1,050 (2,315)	1,050 (2,315)	1,050 (2,315)	1,0 (2,3)50 315)		
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,980 (4,366)	1,980 (4,366)	1,980 (4,366)	1,980 (4,366)	2,0 (4,5)85 597)		

*1: Includes weight of air conditioner and side airbag *2: Includes weight of audio

NOTE:

When any of the following optional parts are installed, add the weight to the curb weight.

Weigh optio		Cruise control	Self levelizer	Air condi- tioner	Sunroof	Leather interior	SRS Airbag	Cold weather	Audio	Rear spoiler	Sports package
par	ts						(Side)	pack			
Front	kgf	2.1	0.2	13.9	10.9	1.8	2.9	0.2	1.8	-0.7	-1.4
	(lb)	(4.6)	(0.4)	(30.6)	(24.0)	(4.0)	(6.4)	(0.4)	(4.0)	(-1.54)	(-3.09)
Rear	kgf	0.3	4.2	-0.1	16.4	3.1	3.0	0.2	0.7	3.2	-3.8
	(lb)	(0.7)	(9.3)	(-0.2)	(36.2)	(6.8)	(6.6)	(0.4)	(1.5)	(7.1)	(-8.38)
Total	kgf	2.4	4.4	13.8	27.3	4.9	5.9	0.4	2.5	2.5	-5.2
	(lb)	(5.3)	(9.7)	(30.4)	(60.2)	(10.8)	(13.0)	(0.9)	(5.5)	(5.5)	(-11.47)

2. AUSTRALIA SPEC. VEHICLE SAOB705G3704

Model			OUTBACK					
				AWD				
			4 cy	6 cylinders				
			5MT*	4AT*	4AT			
Unladen mass (U.M.)	Front	kgf (lb)	790 (1,742)	800 (1,764)	900 (1,985)			
	Rear	kgf (lb)	650 (1,433)	650 (1,433)	690 (1,521)			
	Total	kgf (lb)	1,440 (3,175)	1,450 (3,197)	1,590 (3,506)			
Gross vehicle mass	Front	kgf (lb)	950 (2,095)	950 (2,095)	990 (2,183)			
(G.V.M.)	Rear	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)			
	Total	kgf (lb)	1,990 (4,388)	1,990 (4,388)	2,030 (4,476)			

*: Includes weight of audio

NOTE:

When any of the following optional parts are installed, add the weight to the unladen mass.

Weigł optio par	nal	Cruise control	Self levelizer	Air condi- tioner	Sunroof	Leather interior	SRS Airbag (Side)	Cold weather pack	Audio	Rear spoiler	Sports package
Front	kgf	2.1	0.2	13.9	10.9	1.8	2.9	0.2	1.8	-0.7	-1.4
	(lb)	(4.6)	(0.4)	(30.6)	(24.0)	(4.0)	(6.4)	(0.4)	(4.0)	(-1.54)	(-3.09)
Rear	kgf	0.3	4.2	-0.1	16.4	3.1	3.0	0.2	0.7	3.2	-3.8
	(lb)	(0.7)	(9.3)	(-0.2)	(36.2)	(6.8)	(6.6)	(0.4)	(1.5)	(7.1)	(-8.38)
Total	kgf	2.4	4.4	13.8	27.3	4.9	5.9	0.4	2.5	2.5	-5.2
	(lb)	(5.3)	(9.7)	(30.4)	(60.2)	(10.8)	(13.0)	(0.9)	(5.5)	(5.5)	(-11.47)

3. OTHERS SA08705G3705

Model			OUTBACK		
			5MT*	4AT*	
Curb weight (C.W.)	Front	kgf (lb)	810 (1,786)	859 (1,894)	
	Rear	kgf (lb)	670 (1,477)	711 (1,568)	
	Total	kgf (lb)	1,480 (3,263)	1,570 (3,462)	
Maximum permissible	Front	kgf (lb)	975 (2,150)	975 (2,150)	
axle weight (M.P.A.W.)	Rear	kgf (lb)	1,050 (2,315)	1,050 (2,315)	
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,980 (4,366)	1,980 (4,366)	

*: Includes weight of cruise control and air conditioner

NOTE:

When any of the following optional parts are installed, add the weight to the curb weight.

Weigh optio		Cruise control	Self levelizer	Air condi- tioner	Sunroof	Leather interior	SRS Airbag	Cold weather	Audio	Rear spoiler	Sports package
par	ts						(Side)	pack			
Front	kgf	2.1	0.2	13.9	10.9	1.8	2.9	0.2	1.8	-0.7	-1.4
	(lb)	(4.6)	(0.4)	(30.6)	(24.0)	(4.0)	(6.4)	(0.4)	(4.0)	(–1.54)	(-3.09)
Rear	kgf	0.3	4.2	-0.1	16.4	3.1	3.0	0.2	0.7	3.2	-3.8
	(lb)	(0.7)	(9.3)	(-0.2)	(36.2)	(6.8)	(6.6)	(0.4)	(1.5)	(7.1)	(-8.38)
Total	kgf	2.4	4.4	13.8	27.3	4.9	5.9	0.4	2.5	2.5	-5.2
	(lb)	(5.3)	(9.7)	(30.4)	(60.2)	(10.8)	(13.0)	(0.9)	(5.5)	(5.5)	(–11.47)

Specifications

MEMO:

PRECAUTION

PC

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1. Precaution SA04677

A: PRECAUTION SA04677F59

Please clearly understand and adhere to the following general precautions. They must be strictly followed to avoid minor or serious injury to the person doing the work or people in the area.

1. ABS SA04677F5901

Handle the ABS as a total system. Do not disassemble or attempt to repair individual parts. Doing so could prevent the ABS system from operating when needed or cause it to operate incorrectly and result in injury.

2. BRAKE FLUID SA04677F5902

If brake fluid gets in your eyes or on your skin, do the following:

• Wash out your eyes and seek immediate medical attention.

• Wash your skin with soap and then rinse thoroughly with water.

3. ELECTRIC FAN SA04677F5903

The electric fan may rotate without warning, even when the engine is not on. Do not place your hand, cloth, tools, or other items near the fan at any time.

4. ROAD TESTS SA04677F5904

Always conduct road tests in accordance with traffic rules and regulations to avoid bodily injury and interrupting traffic.

5. AIRBAG SA04677F5905

To prevent bodily injury from unexpected deployment of airbags and unnecessary maintenance, follow the instructions in this manual when performing maintenance on airbag components or nearby, and airbag wiring harnesses or nearby. To prevent unexpected deployment, perform one

of the steps below and then wait at least 20 seconds to discharge electricity before beginning work.

- Step 1: Turn the ignition switch OFF.
- Step 2: Remove the negative battery terminal.

6. AIRBAG DISPOSAL SA04677F5906

To prevent bodily injury from unexpected airbag deployment, do not dispose airbag modules in the same way as other refuse. Follow the special instructions for disposal in this manual. Follow all government regulations concerning disposal of refuse.

7. AIRBAG MODULE SA04677F5907

Adhere to the following when handing and storing the airbag module to prevent bodily injury from unexpected deployment:

• Do not hold harnesses or connectors to carry the module.

• Do not face the bag in the direction that it opens towards yourself or other people.

• Do not face the bag in the direction that it opens towards the floor or walls.

8. AIRBAG SPECIAL TOOLS SA04677F5908

To prevent unexpected deployment, only use special tools.

9. WINDOW SA04677F5909

Always wear safety glasses when working around any glass to prevent glass fragments from damaging your eyes.

10. WINDOW ADHESIVE SA04677F5910

Always use the specified urethane adhesive when attaching glass to prevent it from coming loose and falling, resulting in accidents and injury.

MEMO:

Precaution

NOTE

NT

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1. Note SA03676

A: NOTE *SA03676A15*

This is information that can improve efficiency of maintenance and assure sound work.

1. FASTENER NOTICE SA03676A1501

Fasteners are used to prevent parts from damage and dislocation due to looseness. Fasteners must be tightened to the specified torque.

Do not apply paint, lubricant, rust retardant, or other substances to the surface around bolts, fasteners, etc. Doing so will make it difficult to obtain the correct torque and result in looseness and other problems.

2. STATIC ELECTRICITY DAMAGE SA03676A1502

Do not touch the ECM, connectors, logic boards, and other such parts when there is a risk of static electricity. Always use a static electricity prevention cord or touch grounded metal before conducting work.

3. IGNITION OFF BATTERY SA03676A1503

When removing the battery cables, always be sure to turn the ignition off to prevent electrical damage to the ECM from rush current.

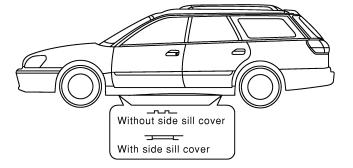
4. SERVICE PARTS SA03676A 1504

Use authentic service parts for maximum performance and maintenance, when conducting repairs. Subaru/FHI will not be responsible for poor performance resulting from the use of parts not specified by a genuine dealer.

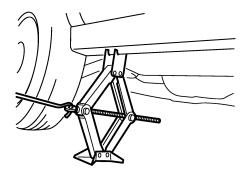
5. LIFTS AND JACKS SA03676A1505

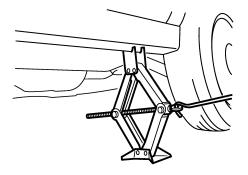
When using a lift or jack-ridged rack to raise a vehicle, always follow instructions concerning jack-up points and weight limits to prevent the vehicle from falling, which could result in injury. Be especially careful to make sure the vehicle is balanced before raising it.

Support locations

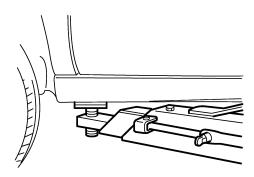


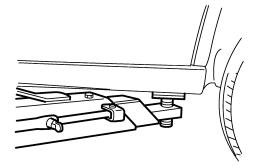
Pantograph jack



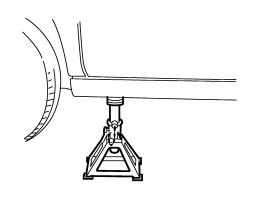


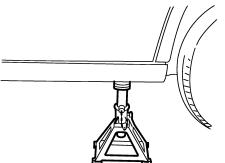
Lift





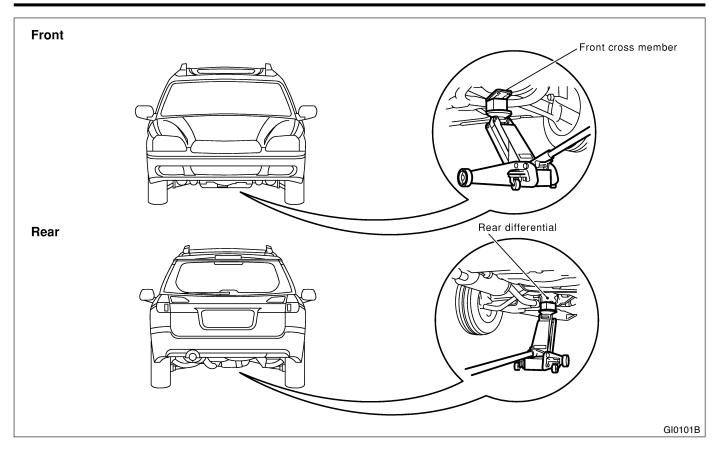
Safety stand





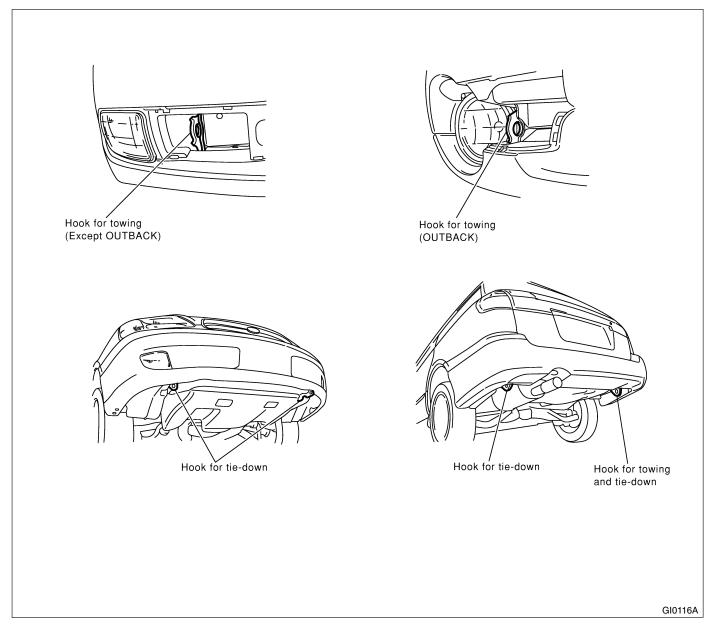
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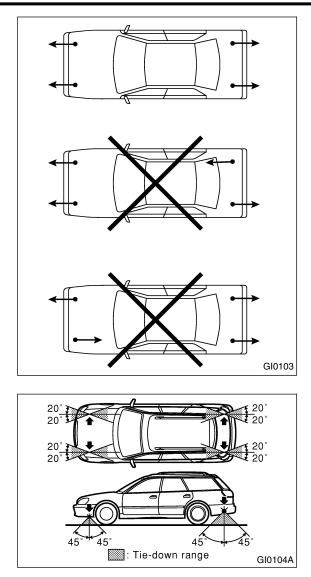
NOTE



6. TIE DOWNS SA03676A1506

Tie downs are used when transporting vehicles and when using the chassis dynamo. Attach tie downs only to the specified points on the vehicle.





7. TOWING SA03676A1507

Avoid towing vehicles except when the vehicle cannot be driven. For vehicles with AWD, AT, or VTD, use a loader instead of towing. When towing other vehicles, to prevent excessive weight from damaging the hook or vehicle:

• Do not tow other vehicles with a front towing hook.

• Make sure the vehicle towing is heavier that the vehicle being towed.

8. TRAINING SA03676A1508

For information about training, contact a dealer or agent.

9. GENERAL SCAN TOOL SA03676A1509

Using general scan tools will greatly improve efficiency of repairing engine electronic controls. The Subaru Select Monitor can be used to diagnose the engine and also the ABS, and other parts.

IDENTIFICATION

ID

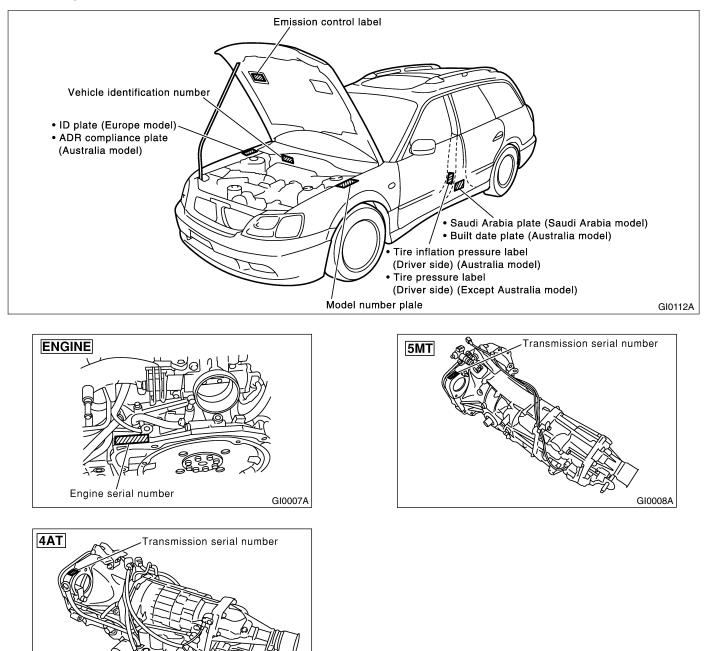
		Page
1.	Identification	2

1. Identification SAD6679

A: IDENTIFICATION SA06679F70

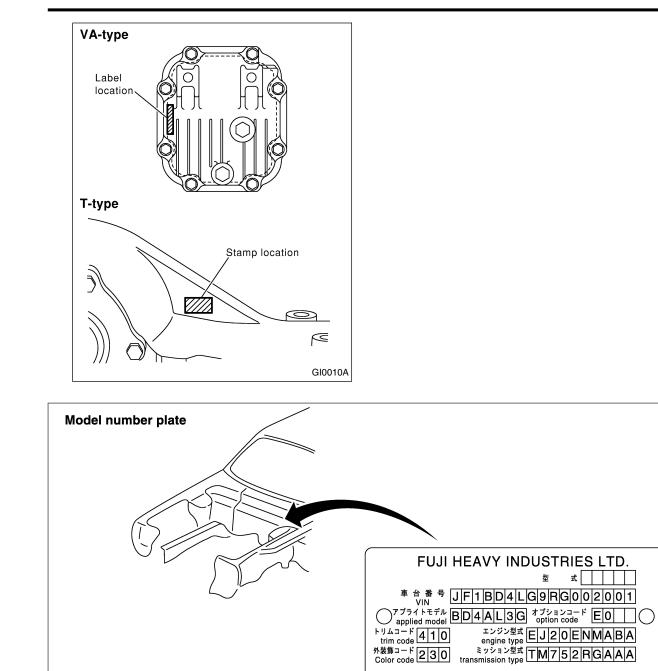
1. IDENTIFICATION NUMBER AND LABEL LOCATIONS SAG6679F7001

The VIN (Vehicle Identification Numbers) is used to classify the vehicle. Positioning of the plate label for identification



GI0009A

IDENTIFICATION



⑦富士重工業株式会社
Gl0011A

2. MEANING OF V.I.N. SA06679F7002

The meaning of the VIN is as follows:

• Europe, Australia and General (Except GCC)

]JF1BE5LJ31G002001[

The starting and ending brackets (][) are stop marks.

Digits	Code	Meaning	Details	
1 to 3	JF1	Manufacturer body area	JF1: Passenger car, FHI made JF2: MPV, FHI made	
4	В	Car line	Legacy/OUTBACK series	
5	E	Body type	E: Sedan H: Station Wagon/OUTBACK	
6	5	Displacement	5: 2.0 L AWD 9: 2.5 L AWD C: 2.5 L AWD, air suspension E: 3.0 L AWD	
7	L	Steering position	K: RHD (Right-hand drive) L: LHD (Left-hand drive)	
8	J	Engine & transmission	E: DOHC MPI 4AT J: SOHC MPI 5F R: SOHC MPI 4AT	
9	3	Drive type	 3: Full-time AWD 5-speed MT single range 4: Full-time AWD 5-speed MT dual range 5: Full-time AWD 4-speed AT A: Full-time AWD 4-speed AT OUTBACK B: Full-time AWD 5-speed MT dual range OUTBACK 	
10	1	Model year	1: 2001MY 2: 2002MY	
11	G	Factory location	G: FHI (Gunma)	
12 to 17	002001	Serial number		

• GCC countries (Saudi Arabia, etc.)

]JF1BE54MX1G002001[

The starting and ending brackets (][) are stop marks.

Digits	Code	Meaning	Details	
1 to 3	JF1	Manufacturer body area	JF1: Passenger car, FHI made	
4	В	Car line	Legacy/OUTBACK series	
5	E	Body type	E: Sedan H: Station Wagon/OUTBACK	
6	5	Displacement	5: 2.0 L AWD 9: 2.5 L AWD	
7	4	Grade	4: GL 6: GX 8: OUTBACK	
8	M	Restraint	M: Manual belts, dual airbag	
9	X	Check digit		
10	1	Model year	1: 2001MY 2: 2002MY	
11	G	Transmission type	G: Full-time AWD 5-speed MT single range H: Full-time AWD 4-speed AT J: Full-time AWD 5-speed MT dual range	
12 to 17	002001	Serial number		

3. MODEL NUMBER PLATE SA06679F7003

The model number plate indicates: the applied model, the option code, the trim code, the engine type, the transmission type, and the exterior color code. This information is helpful when placing orders for parts. **BE9CL7R**

Digits	Code	Meaning	Details	
1	В	Series	B: Legacy/OUTBACK	
2	E	Body style	E: Sedan H: Station Wagon/OUTBACK	
3	9	Engine displacement Drive system Suspension system	9: 2.5 L AWD E: 3.0 L AWD	
4	С	Minor change	2001MY	
5	L	Destination	K: Right-hand drive for general market L: Left-hand drive for general market Y: Left-hand drive for United States, Canada, and Taiwan	
6	7	Grade	3: LX 4: GL 7: GX B: OUTBACK C: OUTBACK— 6 cylinders	
7	R	Transmission, fuel feed system	-	

The engine and transmission type are as follows:

• Engine

EZ30DAXBBB

Digits	Code	Meaning	Details
1 and 2	EZ	Engine type	EJ: 4 cylinders EZ: 6 cylinders
3 and 4	30	Displacement	20: 2.0 L 25: 2.5 L 30: 3.0 L
5	D	Fuel feed system	1: D-MPI SOHC-A 2: D-MPI SOHC-B 3: MPI SOHC D: D-MPI DOHC 6 cylinders
6	A	Detailed specifications	Used when ordering parts. See the parts catalog for details.
7	X	Transmission	W: AWD MT X: AWD AT
8 to 10	BBB	Detailed specifications	Used when ordering parts. See the parts catalog for details.

• Transmission

TV1A4YCAAA

Digits	Code	Meaning	Details
1	Т	Transmission	T: Transmission
2	V	Transmission type	Y: Full-time AWD MT center differential V: Full-time AWD AT VTD Z: Full-time AWD AT MPT
3 and 4	1A	Classification	75: MT 1A: New AT
5	4	Series	4: 3rd Generation Legacy
6	A	Transmission specifica- tions	 V: Full-time AWD 5-speed MT with viscous coupling center differential single range X: Full-time AWD 5-speed MT with viscous coupling center differential dual range Z: Full-time AWD 4-speed AT with MPT Y: Full-time AWD 4-speed AT with VTD
7 to 10	AAA	Detailed specifications	Used when ordering parts. See the parts catalog for details.

• Rear differential 1

VA1REF

Digits	Code	Meaning	Details	
1	V	For AWD	V: AWD	
2	A	Туре	A: A type	
3	1	Hypoid gear diameter	1: 152 dia. 2: 160 dia.	
4	R	Installation position	R: Rear	
5	E	Reduction gear ratio	E: 4.111 F: 4.444	
6	F	Specification differences	F: Case A G: Case B H: Case B with cooling fin	

• Rear differential 2

Т1

Code	Reduction	LSD
	gear ratio	
T1	3.900	No
T2	4.111	No
TP	4.444	No
BK	4.111	No
BP	4.111	Strengthened type
BL	4.444	Strengthened type
VB	3.700	No

RECOMMENDED MATERIALS

RM

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1. Recommended Materials SA05678

A: RECOMMENDED MATERIALS

SA05678G22

1. GENERAL SA05678G2201

To insure the best performance, always use the specified oil, gasoline, adhesive, sealant, etc. or that of equivalent quality.

2. FUEL SA05678G2202

Always use a gasoline of the same or higher octane value than specified in the owner's manual. Ignoring the specifications below will result in damage or poor operation of the engine and fuel injection system. Use the specified gasoline to correct performance.

• Unleaded gasoline

Use unleaded gasoline and not leaded gasoline on vehicles with catalytic converter installed to reduce air pollution. Using leaded gasoline will damage the catalytic converter.

Leaded gasoline

On vehicles without catalytic converter, use gasoline with an octane value of 90 RON or higher.

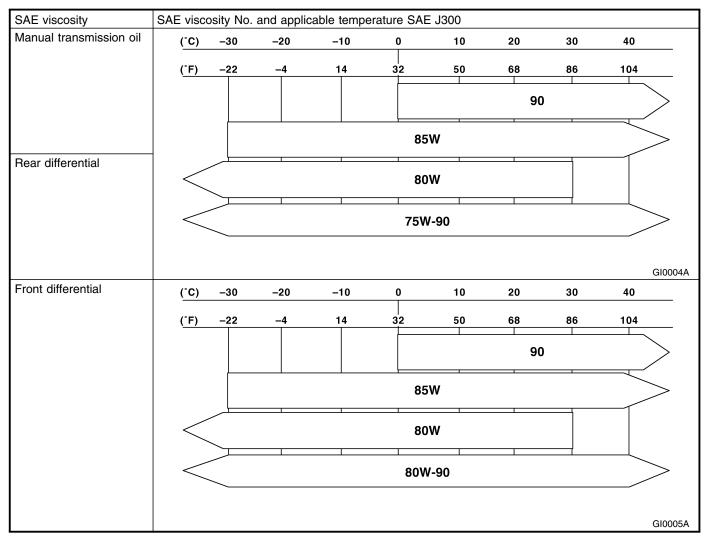
3. LUBRICANTS SA05678G2203

Use either the lubricants in the table below or equivalent lubricants. See the table below to choose the correct SAE viscosity.

Lubricant			Recomme	ended				Alternat	ve
		API Spec.		CCMC S	Spec.	ACEA	Spec.		
Engine oil		Ade "Energy con PRI SERVICE SAE 5W-30 HAGY CONSER PETROLEUR	Glooo1	G4 or 0		ACEA A1, A2		API: SH o	r SG
Manual transmission oil Front differential Rear differential	*	GL-5 GL-5 GL-5	G10002				-		
SAE viscosity	SAE viscosi	ty No. and appl	icable tempera	ture SAE J3	00				
Engine oil									
	(°C) –∹	30 –20	-10	0	10	20	30	40	
	([°] F) –2	22 –4	14	32	50	68	86	104	
				10W-30 or	10W-4	0			>
	5W-30 Recommend								
								G	0003A

RECOMMENDED MATERIALS

Recommended Materials



4. FLUID SA05678G2204

Use the fluids specified in the table below. Do not mix two different kinds or makes of fluid.

Fluid	Recommended	Alternative	Remarks
Automatic transmission fluid	DEXRON III	_	
Power steering fluid	DEXRON III	—	
Brake fluid	FMVSS No. 116 DOT3	FMVSS No. 116 DOT4	
Clutch fluid	FMVSS No. 116 DOT3	FMVSS No. 116 DOT4	

5. COOLANT SA05678G2205

Use genuine coolant to protect the engine. The table below shows the ratio of coolant to distilled water.

Coolant	Coolant Recommended		Alternative
Coolant	SUBARU coolant	000016218	None
Water for dilution	Distilled water	_	Tap water

6. REFRIGERANT SA05678G2206

Standard air conditioners on Subaru vehicles use HFC134a refrigerant. Do not mix it with other refrigerants. Also, do not use any air compressor oil except for ZXL200PG and DENSO OIL 9.

Air conditioner	Recommended	Item number	Alternative
Refrigerant	HFC134a	_	None
Compressor oil	LHD: ZXL200PG RHD: DENSO OIL 9	_	None

7. GREASE SA05678G2207

Use the grease and supplementary lubricants shown in the table below.

Grease	Application point	Recommended	Item number	Alternative
Supplementary lubricants	O2 sensorBolts, etc.	SUBARU CRC	004301003	-
Grease	MT main shaft	FX clutch grease	000040901	_
	Clutch master cylinder push rod	Slicolube G-40M	004404003	-
	 Steering shaft bear- ing Gear shift bush 	SUNLIGHT2	003602010	_
	Steering gear box	Valiant grease M-2	003608001	_
	Disc brake	Niglube RX-2	003606000 or 725191040	—
	Drum brake	Molykote No. 7439	72519460	—
	Brake padBrake shoe	Molykote AS-880N	26298AC000	—
	Front axle SFJ	SSG-6003	28093TA000	_
	Front BJ	NIG 2218	28093AA000	_
	Rear axle BJ	Molykote No. 2	723223010	_
	Rear axle DOJ	VU-3A702	23223GA050	_
	 Control cable Throttle linkage Water pump Door latch Door striker 	Slicolube G-30M	004404002	_

8. ADHESIVES SA05678G2210

Use the adhesives shown in the table below, or equivalent.

Adhesive	Application point	Recommended	Item number	Alternative
Adhesive	Windshield and body	Essex Chemical Crop's Ure- thane E	_	Sunstar 580
	Weatherstrip, rubber parts	Cemedine 5430L	_	3M's EC-1770 EC-1368
	Soft vinyl	Cemedine 540	_	3M's EC-776 EC-847 or EC-1022 (Spray type)
	Momentary sealant	Cemedine 3000	_	Armstrong's Eastman 910

9. SEAL MATERIAL SA05678G2209

Use seal material shown in the table below, or equivalent.

Seal material	Application point	Recommended	Item number	Alternative
	Engine case	Three Bond 1215	004403007	Dow Corning's No. 7038
	Transmission	Three Bond 1217B	K0877YA020	—
	Rear differential	Three Bond 1324	004403042	_
	Rear differential	Three Bond 1105	004403010	Dow Corning's No. 7038
	Weatherstrip	Starcalking B-33A	000018901	Butyl Rubber sealant
	Steering adjusting screw	Three Bond 1102	004403006	_
	SOHC cam cap	Three Bond 1280B	K0877YA018	_

PRE-DELIVERY INSPECTION

PI

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1. Pre-delivery Inspection SA09719

A: GENERAL SA09719G23

The purposes of the pre-delivery inspection (PDI) are as follows.

• Remove the additional parts used for ensuring the vehicle quality during transportation and restore the vehicle to its normal state.

• Check if the vehicle before delivery is in a normal state.

Check for any damage or missing parts that may

have taken place during transportation or storage.

• Make sure to provide a complete vehicle to the customer.

Because of the above reasons, all dealerships must always carry out the PDIs before delivering a vehicle.

In addition, all franchised shops and PDI centers must check the status of every vehicle received to identify who is responsible for any possible defects.

B: PDI PROCEDURE SA09719G50

Follow the procedures shown in the table below. Static Checks Just After Vehicle Receipt

Step	Check point
1. Appearance check	 (1) If the vehicle is covered with protective coating, visually check the vehicle body for damage and dents. If the protective coating has been removed, visually check the body paints for small areas of damage or stains. (2) Visually check the glass and light lenses for any damage and cracks or excessive gaps to the body sheet metal.
	(3) Visually check the plated parts for any damage.
2. Tire check	(1) Check the tires for damage, abnormal conditions, and dents on the wheels.(2) Check the tire air pressure.
3. Fuse installation	(1) If the vehicle is about to be delivered to the customer, attach a room lamp fuse.
4. Connection of air conditioner harness	(1) If the vehicle is about to be delivered to the customer, connect the air conditioner harness.
5. Check the doors for lock/unlock and open/ close operations.	(1) Using the key, check if the door can be locked and unlocked normally.(2) Open and close the all doors to see that there are no abnormal conditions.
6. Power window operation check	(1) Check the power window for correct operations.
7. Operation check of trunk lock release lever	(1) Operate the trunk lock release lever to check that the trunk opens nor- mally.
8. Operation check of rear gate lock release lever	(1) Operate the rear gate lock release lever to check that the rear gate is unlocked normally.
9. Operation check of fuel lid opener lock release lever	(1) Operate the fuel lid opener to check that the fuel lid is unlocked nor- mally.
10. Accessory check	Check the following accessories are provided: • Owner's manual • Warranty booklet • Service booklet • Spare key • Jack • Tool set • Spare tire
11. Operation check of hood lock release system	(1) Operate the hood lock release lever to check that the hood opens nor- mally.
12. Battery	(1) Check the battery for any abnormal conditions such as rust and trace of battery fluid leaks.
13. Brake fluid	(1) Check the fluid amount.
14. Engine oil	(1) Check the oil amount.
15. Transmission fluid	(1) Check the fluid amount.(2) For AT, check the front differential oil.
16. AT front differential oil	(1) Check the AT front differential oil amount.
17. Coolant	(1) Check the coolant amount.
18. Clutch fluid	(1) Check the clutch fluid amount.
19. Window washer fluid	(1) Check the window washer fluid amount.
20. Hood latch check	(1) Check that the hood is closed and latched securely.
21. Keyless entry system	(1) Check that the keyless entry system operates normally.
22. Seat	 Check the seat surfaces for smears or dirt. Check the seat installation conditions and functionality.
20. 0	 (2) Check the seat installation conditions and functionality. (4) Obset the seat hold installation conditions and functionality.
23. Seat belt	(1) Check the seat belt installation conditions and functionality.
24. Wheel alignment	(1) Check that the wheel alignments are properly adjusted.

Checks with the Engine Running

Step	Check point
1. Read memory and test mode connectors	(1) Read memory and test mode connectors
2. Starting condition	(1) Start the engine and check that the engine starts smoothly.
3. Exhaust system	(1) Check that the exhaust noise is normal and no leaks are found.
4. Indicator light	(1) Check that all the indicator lights operate normally.
5. Clock	(1) Check that the clock operate normally.
6. Radio	(1) Check that the radio system operates normally.
7. Cigarette lighter	(1) Check that the cigarette lighter operates normally.
8. Lighting system	(1) Check that the lighting systems operate normally.
9. Window washer	(1) Check that the window washer system operates normally.
10. Wiper	(1) Check that the wiper system operates normally.

Dynamic Test with the Vehicle Running

Step	Check point
1. Brake test	(1) Check that the foot brake operates normally.
2. Parking brake	(1) Check that the parking brake operates normally.
3. AT shift control	(1) Check the AT shift patterns are correct.
4. Heater & ventilation	(1) Check that the heater & ventilation system operates normally.
5. Air conditioner	(1) Check that the air conditioner operates normally.
6. Cruise control	(1) Check that the cruise control system operates normally.

Checks after Dynamic Test

Step	Check point
1. ATF level	(1) Check that the ATF level is normal.
2. Power steering fluid level	(1) Check that the power steering fluid level is normal.
3. Fluid leak check	(1) Check for fluid/oil leaks.
4. Water leak check	(1) Spray the vehicle with water and check for water leaks.
5. Appearance check 2	(1) Remove the protective coating (if any).
	(2) Check the body paints for damage and smears.(3) Check the plated parts for damage and rust.
	(3) Oneck the plated parts for damage and fust.

1. APPEARANCE CHECK SA09719G5001

 If the vehicle is covered with protective coating, visually check the vehicle body for damage and dents.

 If there is no protective coating, check the body paints for small areas of damage or stains and repair as necessary.

• Check the window glass, door glass, and lights for any cracks or damage and repair or replace the parts as necessary.

• Check the plated parts, such as the grilles and door knobs, for damage or loss of gloss and repair or replace the parts as necessary.

2. TIRE CHECK SA09719G5002

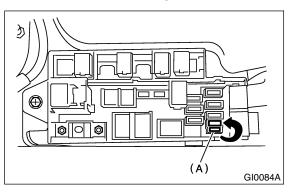
• Check the tire outer faces for any damage.

• Check the tire air pressure by referring to the following table.

Tire size	Tire inflation pressure kPa (kg/cm ² , psi)		
	Front Rear		
185/70R14	220 (2.2, 32)	210 (2.1, 30)	
195/70R15	220 (2.2, 32)	210 (2.1, 30)	
205/50R16	230 (2.3, 33)	220 (2.2, 32)	
215/60R16	200 (2.0, 29)	200 (2.0, 29)	

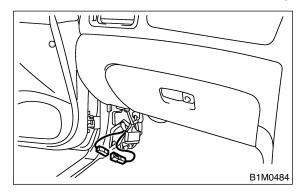
3. FUSE INSTALLATION SA09719G5010

A vehicle just delivered has no fuses for the room lamp circuit to prevent battery discharge. Attach a 15 A fuse as shown in the figure.



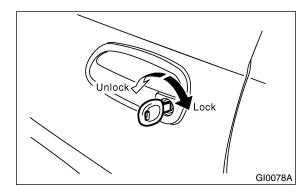
4. CONNECTION OF AIR CONDITIONER CUT CONNECTOR SA09719G5051

A vehicle just delivered has its air conditioner cut connector disconnected to protect the air conditioner compressor. Connect as shown in the figure.



5. CHECK THE DOOR OPERATIONS, LOCK/UNLOCK AND OPEN/CLOSE, AS FOLLOWS. SA09719G5003

Using the key, lock and unlock the door several times to check for normal operation. Open and close the door several times for smooth movement.



• Vehicles with manual door locks:

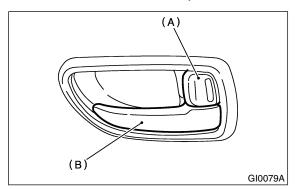
Sit in the driver seat, close the door completely, and move the lock lever to the lock position. Then, pull the inside door handle to ensure the door will not open.

Pre-delivery Inspection

Vehicles with power door locks:

Sit in the driver seat, close the driver's door completely, and place the door lock knob (A) to the lock position. Then pull the all inside door handles (B) to ensure that the all doors will not open.

For other doors, place the lock levers to the lock positions and then pull the inside door handles to ensure that the doors will not open.



6. POWER WINDOW OPERATION CHECK

SA09719G5004

Manipulate the power window switches one by one to check that each of the power windows goes up and down with no abnormal noises.

7. OPERATION CHECK OF TRUNK LOCK RELEASE LEVER SA09719G5005

Operate the trunk lock release lever and verify that the trunk lid opens.

8. OPERATION CHECK OF REAR GATE LOCK RELEASE LEVER SA09719G5006

Operate the rear gate lock release lever and verify that the rear gate is unlocked and opened smoothly.

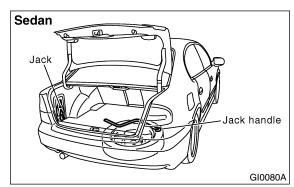
9. OPERATION CHECK OF FUEL LID OPENER LOCK RELEASE LEVER SA09719G5007

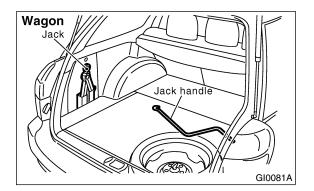
Operate the fuel lid opener and verify that the fuel lid opens normally. Check that the filler cap is securely closed.

10. ACCESSORY CHECK SA09719G5008

Check that the following accessories are provided in the luggage compartment or cargo area.

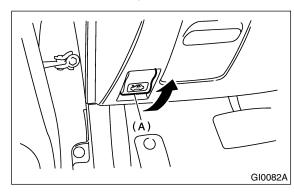
- Owner's manual
- Warranty booklet
- Service booklet
- Spare key
- Jack
- Tool set
- Spare tire

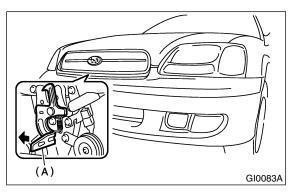




11. OPERATION CHECK OF HOOD LOCK RELEASE SYSTEM SA09719G5009

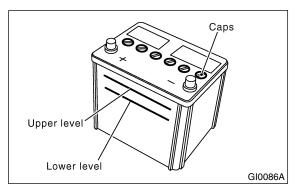
Unlatch and open the hood while checking that no abnormal conditions are found. Then, support the hood with the hood stay.





12. BATTERY SA09719G5012

Check the battery terminals to make sure that no rust or corrosions due to fluid leaks are found. Check that the battery tent is securely tightened.

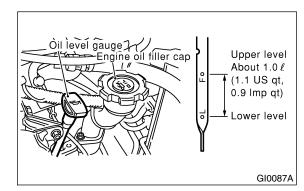


13. BRAKE FLUID SA09719G5013

Check the brake fluid amount. If the amount is insufficient, carry out a brake line test to identify brake fluid leaks and check the brake operation. After that, refill the brake fluid tank with the specified type of fluid.

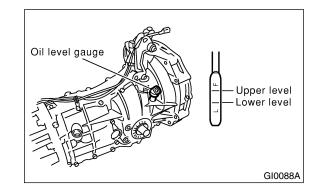
14. ENGINE OIL SA09719G5014

Check the engine oil amount. If the amount is insufficient, check that no leaks are found. Then, add the necessary amount of the specified engine oil.



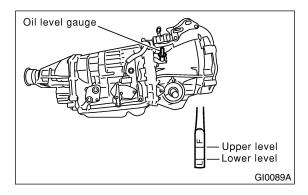
15. TRANSMISSION FLUID SA09719G5015

Check the transmission fluid amount. If the amount is insufficient, check that no leaks are found. Then, add the necessary amount of the specified fluid.



16. AT FRONT DIFFERENTIAL OIL SA09719G5016

Check the AT front differential oil amount. If the amount is insufficient, check that no leaks are found. Then, add the necessary amount of the specified AT front differential oil.

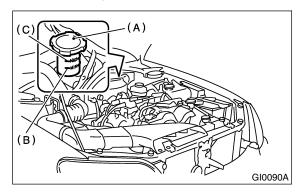


17. COOLANT SA09719G5017

Check the coolant amount on the reservoir. If the amount is insufficient, check that no leaks are found. Then, add the necessary amount of coolant with the specified concentration.

18. CLUTCH FLUID SA09719G5018

Check the clutch fluid amount. If the amount is insufficient, check that no leaks are found. Then, add the necessary amount of the specified fluid.



19. WINDOW WASHER FLUID SA09719G5019

Check the window washer fluid amount. If the amount is insufficient, check that no leaks are found. Then, add the necessary amount of washer fluid commercially available.

20. HOOD LATCH CHECK SA09719G5020

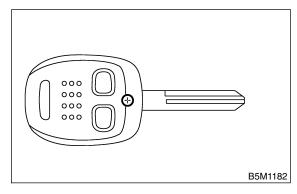
Retract the hood stay and close the hood. Check that the hood is securely latched.

21. KEYLESS ENTRY SYSTEM SA09719G5021

Check the keyless entry system operations as follows.

• Remove the key from the ignition switch and close all the doors including rear gate (wagon).

• Press the "LOCK" button on the transmitter momentarily once and check if all the doors are locked and the hazard light flashes ones.



• Press the "OPEN" button on the transmitter momentarily once and check if the driver's door is unlocked, the hazard light flashes twice and the dome light illuminates.

• Close all doors and rear gate, press the "LOCK" button of the transmitter. Press the "OPEN" button of the transmitter and wait for 30 seconds. Check that all doors and the rear gate are automatically locked again.

22. SEAT SA09719G5023

Check that each seat provides full functionality in sliding and reclining. Check all available functions of the rear seat such as a trunk-through center arm rest.

23. SEAT BELT SA09719G5024

Pull out the seat belt and then release it. Check that the belt webbing retracts smoothly.

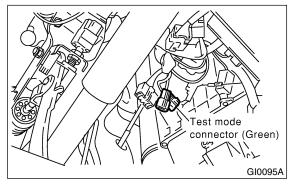
24. WHEEL ALIGNMENT SA09719G5026

Check the wheel alignments. <Ref. to FS-6 Wheel Alignment.> and <Ref. to RS-8 Wheel Alignment.>

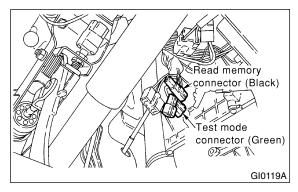
25. READ MEMORY AND TEST MODE CONNECTORS SA09719G5050

Turn the ignition switch to ON and check that the check-engine light starts blinking. If the light blinks, return the ignition key to LOCK and disconnect the test mode connector. Then, turn the ignition key to ON again. If the check-engine light blinks at that time in spite of the disconnected test mode connector, carry out an engine diagnosis.

With OBD model



Without OBD model



26. STARTING CONDITION SA09719G5029

Start the engine and check that the engine starts smoothly. If any battery voltage problems are found, recharge or replace the battery. If any abnormal noises are observed, immediately stop the engine and check and repair the necessary components.

27. EXHAUST SYSTEM SA09719G5030

Listen to the exhaust noise to see if no abnormal noises are observed.

28. INDICATOR LIGHT SA09719G5031

Check that all the indicator lights are off.

29. CLOCK SA09719G5032

Check the clock for normal operations and enough accuracy.

30. RADIO *SA09719G5033*

Check the radio for full functionality and normal noise level. Also check the CD unit operations.

31. CIGARETTE LIGHTER SA09719G5034

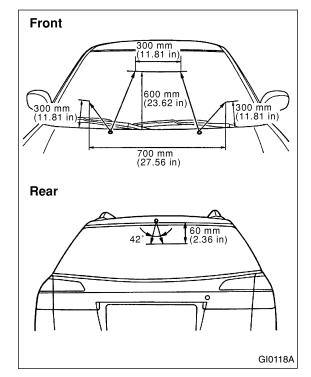
Check that the cigarette lighter operations.

32. LIGHTING SYSTEM SA09719G5035

- Check the headlight operations.
- Check the brake light operations.
- Check the other lights for normal operations.

33. WINDOW WASHER SA09719G5036

Check that the window washer system injects washer fluid to the specified area of the windshield shown in the figure.



34. WIPER SA09719G5037

Check the front and rear wipers for normal operations.

35. BRAKE TEST SA09719G5038

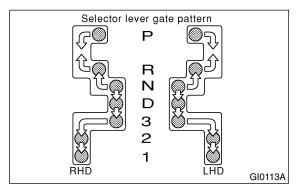
Check the foot brake for normal operations.

36. PARKING BRAKE SA09719G5039

Check the parking brake for normal operations.

37. AT SHIFT CONTROL SA09719G5041

Set the AT select lever to each gear position while checking that the demanded gear position is correctly attained.



Selector		Gear F	Position	
Position	1st	2nd	3rd	4th
D	Yes	Yes	Yes	Yes
3	Yes	Yes	Yes	
2	Yes	Yes		
1	Yes			

38. HEATER & VENTILATION SA09719G5042

Operate the heater and ventilation system to check for normal airflow and heating capacity.

39. AIR CONDITIONER SA09719G5043

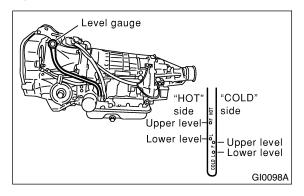
Operate the air conditioner. Check that the A/C compressor operates normally and enough cooling is provided.

40. CRUISE CONTROL SA09719G5044

Operate the cruise control system. Check that the system is activated and deactivated correctly.

41. ATF LEVEL SA09719G5045

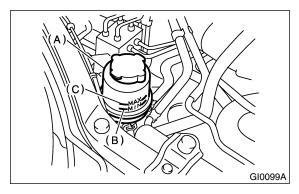
Check that the ATF level is normal. If insufficient, check that no leaks are found. Then add the necessary amount of the specified ATF.



42. POWER STEERING FLUID LEVEL

SA09719G5046

Check that the power steering fluid level is normal. If insufficient, check that no leaks are found. Then add the necessary amount of the specified power steering fluid.



43. FLUID LEAK CHECK SA09719G5047

Check the entire areas of the vehicle for any trace of coolant/oil/fluid leaks.

44. WATER LEAK TEST SA09719G5048

Spray the vehicle with water and check that no water enters the passenger compartment.

• Before performing the water leakage test, remove anything that may obstruct the operation or which must be kept dry.

• Close all of the windows completely, and then close all of the doors tightly. Close the hood and trunk lid before starting the test.

• Connect a hose to a tap, and spray water on the vehicle. The rate of water discharge must be approx. 20 to 25 liters (5.3 to 6.6 US gal, 4.4 to 5.5 Imp gal) per minute.

When spraying water on areas adjacent to the floor and wheel house, increase the pressure. When directing water on areas other than the floor portion and wheel house, decrease the pressure. But the force of water must be made strong occasionally by pressing the end of the hose.

NOTE:

Be sure to keep the hose at least 10 cm (3.9 in) from the vehicle.

- Check the following areas:
 - Front window and body framework mating portion
 - Door mating portions
 - Glass mating portions
 - Rear quarter window mating portions
 - Rear window and body framework mating portion
 - Around roof drips

• If any dampness in the compartments is discovered after the water has been applied, carefully check all areas that may have possibly contributed to the leak.

45. APPEARANCE CHECK 2 SA09719G5049

Check the vehicle body paints, plated faces, glass, and lenses for any dirt or damage.

MEMO:

PERIODIC MAINTENANCE SERVICES

PM

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1. General Description SA07001

A: GENERAL SA07001 G23

Be sure to perform periodic maintenance in order to maintain vehicle performance and find problems before they become serious.

2. Schedule SA07682

A: MAINTENANCE SCHEDULE 1 SA07682G24

1. MAINTENANCE SCHEDULE 1 - (1) SA07682G2401

For periodic maintenance of over 50,000 km (30,000 miles) or 48 months, carry out inspections by referring to the following tables. For a maintenance period gone beyond these tables, apply them repeatedly as a set of 50,000 km (30,000 miles) or 48 months.

				Maintenance Interval [Number of months or km (miles), whichever occurs first]						
	Months			12	24	36	48	Remarks		
	× 1,000 km × 1,000 miles		5	12.5	25	37.5	50			
			3	7.5	15	22.5	30			
1	Engine oil	For 3.0 L	R	R	R	R	R	For chain drive		
		Others		R	R	R	R			
2	Engine oil filter	For 3.0 L	R	R	R	R	R	For chain drive		
		Others		R	R	R	R			

2. MAINTENANCE SCHEDULE 1 – (2) SA07682G2402

For periodic maintenance of over 100,000 km (60,000 miles) or 48 months, carry out inspections by referring to the following tables. For a maintenance period gone beyond these tables, apply them repeatedly as a set of 100,000 km (60,000 miles) or 48 months.

			Mainte	nance Ir	nterval					
			[Numbe	[Number of months or km (miles), whichever occurs first]						
	Months			12	24	36	48	Remarks		
	× 1,000 km × 1,000 miles		1.6	25	50	75	100			
			1	15	30	45	60			
3	Spark plugs	For 3.0 L					R			
		Others			R		R			
4	Drive belt(s)	For 3.0 L		I	I	I	I	Replace every 160,000 km (100,000 miles)		
		Others		I	I	I	I			
5	Camshaft drive belt	Except 3.0 L					R			
6	Valve clearance	Use in Europe coun- tries						Inspect every 100,000 km (60,000 miles)		
		Use in others						Inspect every 160,000 km (100,000 miles)		
7	Fuel line				I		I			
8	Fuel filter						R			
9	Air cleaner element			I	R	I	R			
10	Cooling system				I		I			
11	Coolant				R		R			
12	Idle mixture		I	I	I	I	I	For models without catalyst con- verter		
13	Clutch system			I	I	I	I			
14	Hill-holder system		I	I	I	I	I			
15	Transmission oil				R		R			
16	ATF				R		R			
17	Front & rear differ- ential oil				R		R			
18	Brake line				I		I			
19	Brake fluid				R		R			

SCHEDULE

				nance In er of mo		km (mile	es) whic	hever occurs first]
	Months			12	24	36	48	Remarks
	× 1,000 km		1.6	25	50	75	100	
	× 1,000 miles		1	15	30	45	60	
20	Disc brake pads & discs			Ι	I	I	I	
21	Brake linings and drums				I		I	
22	Parking brake			I	I	I	I	
23	Suspension			I	I	I	I	
24	Wheel bearing						(I)	
25	Axle boots & joints			I	I	I	I	
26	Steering system (Power steering)			I	I	I	I	

Symbols used:

R: Replace

I: Inspection

(R) or (I): Recommended service for safe vehicle operation.

NÓTE:

(1) Periodic inspection and replacement of the camshaft drive chains on the 3.0 liter models are not required.

(2) When the vehicle is used in extremely dusty conditions, the air cleaner element should be replaced more often.
(3) ATF filter is maintenance free part. ATF filter needs replacement, when it has physically damaged or ATF leaked.

B: MAINTENANCE SCHEDULE 2 SAUTEB2G25

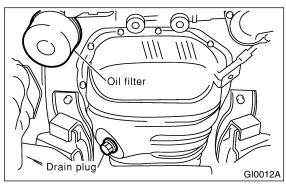
ltem	Every	Repeat short distance drive	Repeat rough/muddy road drive	Extremely cold weather area	Salt or other corrosive used or coastal area	High humidity or mountain area	Repeat tow- ing trailer
Engine oil		Replace more frequently		Replace more frequently			Replace more frequently
Engine oil filter		Replace more frequently		Replace more frequently			Replace more frequently
Fuel line	6 months				I		
	12,500 km						
	7,500 miles						
Transmission oil							Replace more frequently
ATF							Replace more frequently
Front & rear dif- ferential oil							Replace more frequently
Brake line	6 months		I		I		I
	12,500 km						
	7,500 miles						
Brake fluid	12 months					R	
	25,000 km						
	15,000 miles						
Brake pads	6 months	I	I		I		I
	12,500 km						
	7,500 miles						
Brake linings	6 months	I	I		I		I
and drums	12,500 km						
	7,500 miles						
Parking brake	6 months	I	I		I		I
	12,500 km						
	7,500 miles						
Suspension	6 months	_	I	I	I		I
	12,500 km						
	7,500 miles						
Axle boots &	6 months		I		I		I
joints	12,500 km						
	7,500 miles						
Steering system	6 months		I –	I	I		I
(Power steering)	12,500 km						
	7,500 miles						

3. Engine Oil SA07077

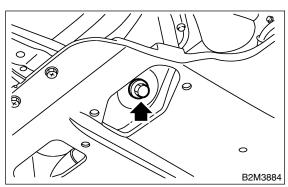
A: REPLACEMENT SA07077A20

1) Drain engine oil by loosening engine oil drain plug.

2.5 L model

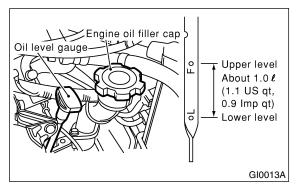


3.0 L model

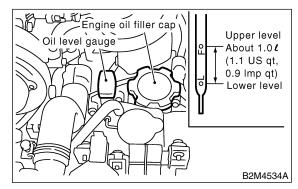


2) Open engine oil filler cap for quick draining of the engine oil.

2.5 L model



3.0 L model

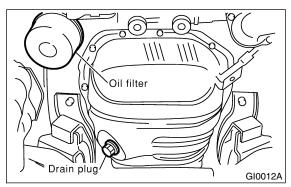


3) Replace drain plug gasket.

4) Tighten engine oil drain plug after draining engine oil.

Tightening torque:

44 N·m (4.5 kgf-m, 33 ft-lb)



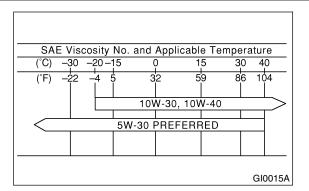
5) Fill engine oil through filler pipe up to upper point on level gauge. Make sure that vehicle is placed level when checking oil level. Use engine oil of proper quality and viscosity, selected in accordance with the table in figure.

Engine oil capacity:

2.5 L model Upper level 4.0 ℓ (4.2 US qt, 3.5 Imp qt) Lower level 3.0 ℓ (3.2 US qt, 2.6 Imp qt) 3.0 L model

Upper level

5.5 ℓ (5.8 US qt, 4.8 lmp qt) Lower level 4.5 ℓ (4.8 US qt, 4.0 lmp qt)



The proper viscosity helps vehicle get good cold and hot starting by reducing viscous friction and thus increasing cranking speed.

NOTE:

• When replenishing oil, it does not matter if the oil to be added is a different brand from that in the engine; however, use oil having the API classification and SAE viscosity No. designated by SUBARU.

• If vehicle is used in desert areas with very high temperatures or for other heavy duty applications, the following viscosity oils may be used:

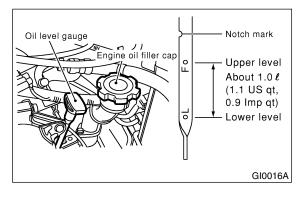
API classification: SJ or SH

SAE Viscosity No.: 30, 40, 10W-50, 20W-40, 20W-50

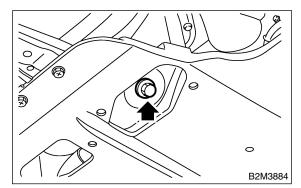
- 6) Close engine oil filler cap.
- 7) Start engine and warm it up for a time.
- 8) After engine stops, recheck the oil level.

If necessary, add engine oil up to upper level on level gauge.

2.5 L model



3.0 L model



B: INSPECTION SA07077A10

1) Park vehicle on a level surface.

2) Remove oil level gauge and wipe it clean.

3) Reinsert the level gauge all the way. Be sure that the level gauge is correctly inserted and in the proper orientation.

4) Remove it again and note the reading. If the engine oil level is below the "L" line, add oil to bring the level up to the "F" line.

5) After turning off the engine, wait a few minutes for the oil to drain back into the oil pan before checking the level.

6) Just after driving or while the engine is warm, engine oil level may show in the range between the "F" line and the notch mark. This is caused by thermal expansion of the engine oil.

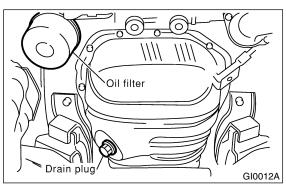
7) To prevent overfilling the engine oil, do not add oil above the "F" line when the engine is cold.

4. Engine Oil Filter SA07585

A: REPLACEMENT SA07585A20

1. 2.5 L MODEL SA07585A2001

- 1) Remove oil filter with ST.
- ST 498547000 OIL FILTER WRENCH



2) Get a new oil filter and apply a thin coat of engine oil to the seal rubber.

3) Install oil filter by turning it by hand, being careful not to damage seal rubber.

4) Tighten more (approximately 2/3 to 3/4 turn) after the seal rubber contacts the oil pump case. Do not tighten excessively, or oil may leak.

5) After installing oil filter, run engine and make sure that no oil is leaking around seal rubber.

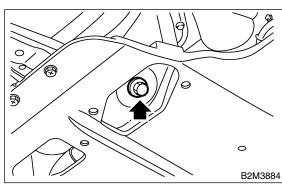
NOTE:

The filter element and filter case are permanently joined; therefore, interior cleaning is not necessary.

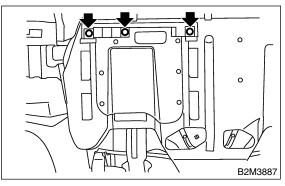
6) Check the engine oil level. <Ref. to PI-7 ENGINE OIL, PDI PROCEDURE, Pre-delivery Inspection.>

2. 3.0 L MODEL SA07585A2002

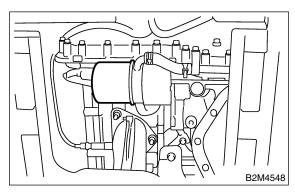
1) Drain engine oil by loosening engine oil drain plug.



2) Remove access lid.



3) Remove oil filter with ST. ST 498547000 OIL FILTER WRENCH



4) Get a new oil filter and apply a thin coat of engine oil to the rubber seal.

5) Install oil filter by turning it by hand, being careful not to damage rubber seal.

6) Tighten more (approximately 2/3 to 3/4 turn) after the rubber seal contacts the oil pump case. Do not tighten excessively, or oil may leak.

7) After installing oil filter, run engine and make sure that no oil is leaking around rubber seal.

NOTE:

The filter element and filter case are permanently jointed; therefore, interior cleaning is not necessary.

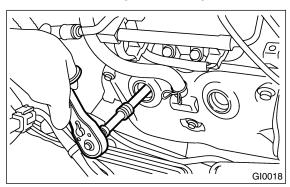
8) Check the engine oil level. <Ref. to LU(H6)-10 INSPECTION, Engine Oil.>

5. Spark Plugs SA07683

A: REPLACEMENT SA07683A20

1. 2.5 L MODEL SA07683A2001

- 1) Disconnect battery ground cable.
- 2) Remove intake duct and intake chamber.
- 3) Remove washer tank and put it aside.
- 4) Disconnect spark plug cord.
- 5) Remove spark plug with a plug-wrench.



6) Set new spark plug.

Recommended spark plug :

With OBD CHAMPION RC10YC4 CHAMPION RC8YC4 NGK BKR6E-11 NIPPONDENSO K20PR-U11 Spark plug gap 1.0 — 1.1 mm (0.039 — 0.043 in)

Without OBD

NGK BKR6E (Without catalytic converter) CHAMPION RC10YC4 (With catalytic converter)

NGK BKR5E-11 (With catalytic converter) Spark plug gap

0.7— 0.8 mm (0.028 — 0.031 in) (Without catalytic converter) 1.0 — 1.1 mm (0.039 — 0.043 in) (With

catalytic converter)

7) Tighten spark plug lightly with hand, and then secure with a plug-wrench to the specified torque.

Tightening torque:

20.6 N·m (2.10 kgf-m, 15.19 ft-lb)

NOTE:

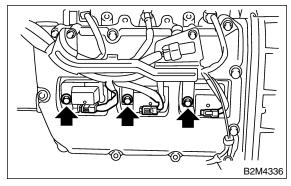
• Be sure to place the gasket between the cylinder head and spark plug.

• If torque wrench is not available, tighten spark plug until gasket contacts cylinder head; then tighten further 1/4 to 1/2 turns.

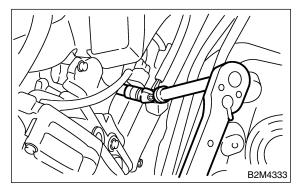
2. 3.0 L MODEL SA07683A2002

1) Disconnect battery cables and then remove battery and battery carrier.

- 2) Remove washer tank and put it aside.
- 3) Remove air cleaner lower case.
- 4) Disconnect connector from ignition coil.
- 5) Remove ignition coil.



6) Remove spark plug with the spark plug socket.



7) Set new spark plug.

Recommended spark plug: NGK PLFR 6A-11

8) Tighten spark plug lightly with hand, and then secure with a plug-wrench to the specified torque.

Tightening torque: 21 N⋅m (2.1 kgf-m, 15 ft-lb)

9) Tighten ignition coil.

Tightening torque: 16 N⋅m (1.6 kgf-m, 12 ft-lb)

NOTE:

• Be sure to place the gasket between the cylinder head and spark plug.

• If torque wrench is not available, tighten spark plug until gasket contacts cylinder head: then tighten further 1/4 to 1/2 turn.

6. Drive Belt(s) SA07684

A: INSPECTION SA07684A10

1. 2.5 L MODEL SA07684A1001

1) Replace belts, if cracks, fraying or wear is found.

2) Check drive belt tension and adjust it if necessary by changing generator installing position and/or idler pulley installing position.

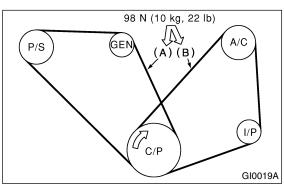
Belt tension

(A)

replaced: 7 — 9 mm (0.276 — 0.354 in) reused: 9.0 — 10.0 mm (0.354 — 0.394 in) (B)*

- replaced: 7.5 8.5 mm (0.295 0.335 in)
- reused: 9.0 10.0 mm (0.354 0.394 in)

*: There is no belt (B) on models without an air conditioner.

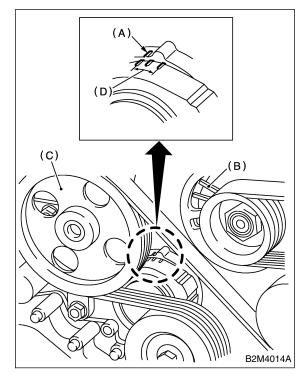


- C/P Crankshaft pulley
- **GEN** Generator
- P/S Power steering oil pump pulley
- A/C Air conditioning compressor pulley
- I/P Idler pulley

2. 3.0 L MODEL SA07684A1002

1) Replace belts, if cracks, fraying or wear is found.

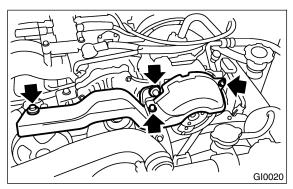
2) Check that the V-belt automatic tensioner indicator is within the range (D).



- (A) Indicator
- (B) Generator
- (C) Power steering oil pump
- (D) Service limit

B: REPLACEMENT SA07684A20

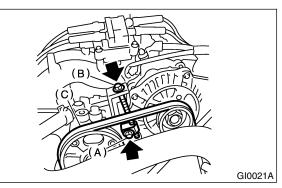
- 1. 2.5 L MODEL SA07684A2004
- 1) Remove V-belt cover.



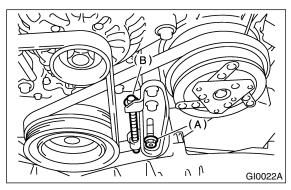
NOTE:

Wipe off any oil or water on the belt and pulley.

- 2) Loosen the lock bolt (A).
- 3) Loosen the slider bolt (B).
- 4) Remove the front side belt (C).

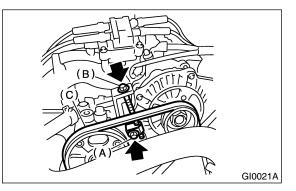


- 5) Loosen the lock nut (A).
- 6) Loosen the slider bolt (B).
- 7) Remove the rear side belt.



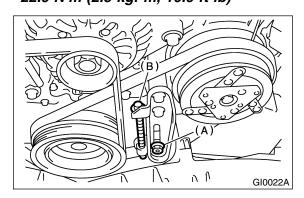
- 8) Install a new belt, and tighten the slider bolt so as to obtain the specified belt tension.
- 9) Tighten the slider bolt (B).
- 10) Tighten the lock bolt (A).

Tightening torque: Lock bolt, through bolt: 25 N·m (2.5 kgf-m, 18 ft-lb) Slider bolt: 8 N·m (0.8 kgf-m, 5.8 ft-lb)



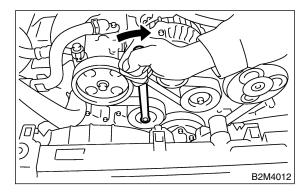
- 11) Install a new belt, and tighten the slider bolt so
- as to obtain the specified belt tension.
- 12) Tighten the slider bolt (B).
- 13) Tighten the lock nut (A).

Tightening torque: 22.6 N⋅m (2.3 kgf-m, 16.6 ft-lb)

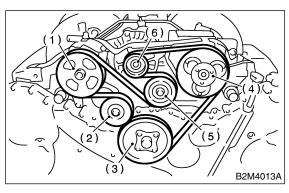


2. 3.0 L MODEL SA07684A2005

Fit the tool to the belt tensioner mounting bolt.
 Turn the tool clockwise, and loosen the V-belt to remove.



3) Install in the reverse order of removal.



- (1) Power steering oil pump
- (2) Belt tension adjuster
- (3) Crankshaft pulley
- (4) A/C compressor
- (5) Belt idler
- (6) Generator

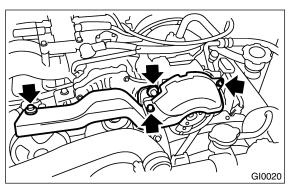
Periodic Maintenance Services

7. Camshaft Drive Belt SA07685

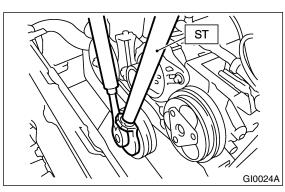
A: REPLACEMENT SA07685A20

1) Remove radiator fan <Ref. to CO(H4)-27 Radiator Main Fan and Fan Motor.> and air conditioner fan <Ref. to CO(H4)-30 Radiator Sub Fan and Fan Motor.>.

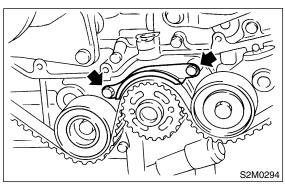
2) Remove V-belt cover.



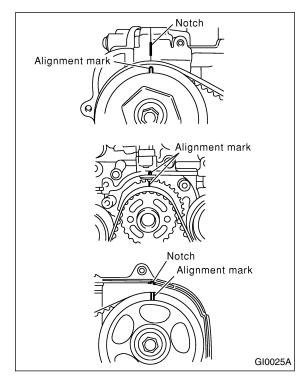
- 3) Remove V-belts. <Ref. to ME(H4)-46 V-belt.>
- 4) Remove air conditioning compressor drive belt tensioner.
- 5) Remove pulley bolt. To lock crankshaft use ST.
- ST 499977100 CRANKSHAFT PULLEY WRENCH



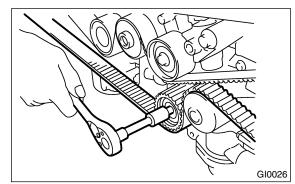
- 6) Remove crankshaft pulley.
- 7) Remove left side belt cover.
- 8) Remove front belt cover.
- 9) Remove timing belt guide. (MT vehicle only)



10) Turn crankshaft and align alignment marks on crankshaft, and left and right camshaft sprockets with notches of belt cover and cylinder block: ST 499987500 CRANKSHAFT SOCKET

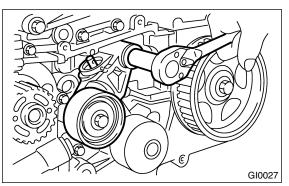


- 11) Remove belt idler.
- 12) Remove belt idler (No. 2).



13) Remove timing belt.

14) Remove automatic belt tension adjuster assembly.



B: INSTALLATION SAUTOBESA11

To install, reverse order of removal procedures. <Ref. to ME(H4)-52 INSTALLATION, Timing Belt Assembly.>

NOTE:

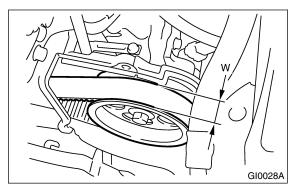
When installing the timing belt, be sure to align all alignment marks on the belt with corresponding marks on the sprockets. If incorrectly installed, interference between pistons and valves may occur.

C: INSPECTION SA07685A10

1) Remove left and right timing belt covers.

2) While cranking engine at least four rotations, check timing belt back surface for cracks or damage. Replace faulty timing belt as needed.

3) Measure timing belt width W. If it is less than 27 mm (1.06 in), check idlers, tensioner, water pump pulley and cam sprocket to determine idler alignment (squareness). Replace worn timing belt.



4) Install left and right timing belt covers.

8. Valve Clearance SA07083

A: INSPECTION SAUTOB3A10

For the inspection procedures of the valve clearance: <Ref. to ME(H4)-59 Valve Rocker Assembly.> or <Ref. to ME(H6)-26, Valve Clearance.>

9. Fuel Line SA07686

A: INSPECTION SA07686A10

The fuel line is located mostly internally, so check pipes, areas near pipes, and engine compartment piping for rust, hose damage, loose bands, etc. If faulty parts are found, repair or replace them. <Ref. to FU(H4withOBD)-78 Fuel Delivery, Return and Evaporation Lines.> or <Ref. to FU(H4w/oOBD)-73 Fuel Delivery, Return and Evaporation Lines.> or <Ref. to FU(H6)-72, Fuel Delivery, Return and Evaporation.>

10. Fuel Filter SA07027

A: REPLACEMENT SA07027A20

For fuel filter replacement procedures, refer to "FU" section. <Ref. to FU(H4withOBD)-75 Fuel Filter.> or <Ref. to FU(H4w/oOBD)-70 Fuel Filter.> or <Ref. to FU(H6)-69, Fuel Filter.>

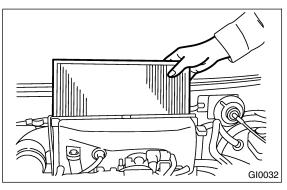
11. Air Cleaner Element SA07687

A: REPLACEMENT SA07687A20

NOTE:

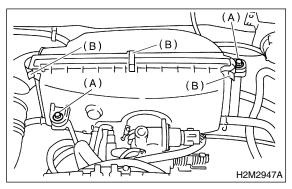
Do not attempt to clean the air cleaner element. The filter paper of the element is wetted with a special non-flammable slow-evaporating viscous liquid. It is resistant to cold weather and has a long service life. Dirt adhering to this filter paper forms porous laminations with the viscous liquid, which function as a filtration layer to reduce dust penetration into the filter paper. If this filter paper is cleaned, the filtration layer thus formed will be lost along with the viscous liquid.

1. 2.5 L MODEL SA07687A2005



1) Remove bolt (A) which install air cleaner case to stays.

2) Remove the clip (B) above the air cleaner case.



3) Remove air cleaner.

4) Install in the reverse order of removal.

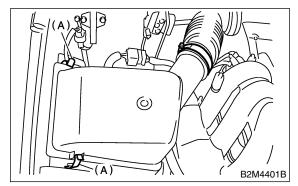
Tightening torque: 32.3 N⋅m (3.3 kgf-m, 23.9 ft-lb)

CAUTION:

Fasten with a clip after inserting the lower tab of the case.

2. 3.0 L MODEL SA07687A2006

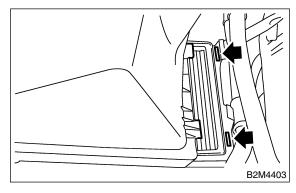
1) Remove the clip (A) above the air cleaner upper cover.



- 2) Remove air cleaner.
- 3) Install in the reverse order of removal.

NOTE:

Before installing air cleaner upper cover, align holes with protruding portions of air cleaner lower case, then secure upper cover to lower case.



12. Cooling System SADTEBE

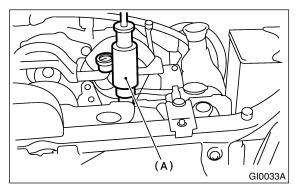
A: INSPECTION SA0768BA10

1) Check radiator for leakage, filling it with coolant and attach radiator cap tester (A) to the filler neck. Then apply a pressure of 157 kPa (1.6 kg/cm^2 , 23 psi) and check the following points:

- Each portion of radiator for leakage
- Hose joints and other connections for leakage

NOTE:

• When attaching or detaching tester and when operating tester, use special care not to deform radiator filler neck.



• When performing this check, be sure to keep the engine stationary and fill radiator with coolant.

• Wipe off check points before applying pressure.

• Use care not to spill coolant when detaching tester from radiator.

2) Check the radiator cap valve open pressure using radiator cap tester.

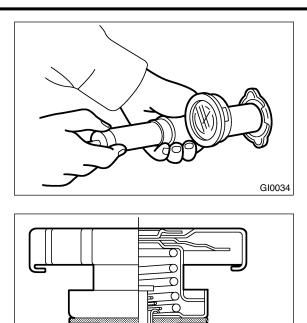
NOTE:

Rust or dirt on cap may prevent valve from functioning normally: be sure to clean cap before testing.

Raise the pressure until the needle of gauge stops and see if the pressure can be retained for five to six seconds. The radiator cap is normal if a pressure above the service limit value has been maintained for this period.

Radiator cap valve open pressure

Standard value: 93 — 123 kPa (0.95 — 1.25 kg/cm², 14 — 18 psi) Service limit: 83 kPa (0.85 kg/cm², 12 psi)





3) If the coolant temperature exceeds 76.0 to 80.0° C (169 to 176° F) while radiator is not so hot, check thermostat. If thermostat does not open at 76.0 to 80.0° C (169 to 176° F), replace it with a new one.

4) If electric fan does not operate when coolant temperature exceeds 90 to 94°C (194 to 201°F), check thermoswitch or fan motor.

13. Coolant SA07689

A: REPLACEMENT SA07689A20

1. REPLACEMENT OF COOLANT SA07689A2001

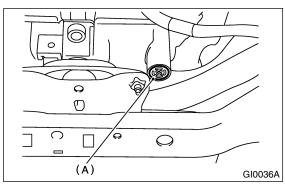
WARNING:

The radiator is of the pressurized type. Do not attempt to open the radiator cap immediately after the engine has been stopped.

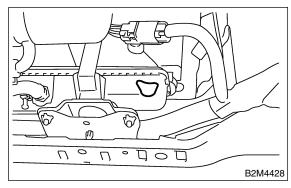
- 1) Lift up the vehicle.
- 2) Remove under cover.
- 3) Place a container under drain pipe.

4) Loosen and remove drain screw (A) to drain engine coolant into container.

2.5 L model



3.0 L model



5) For quick draining, open radiator cap.

CAUTION:

Be careful not to spill coolant on the floor.

6) Drain coolant from reservoir tank.

7) Tighten radiator drain screw securely after draining coolant.

8) Slowly pour prepared coolant from radiator filler port to neck of filler, then pour into reservoir tank up to "FULL" level.

Coolant capacity (fill up to "FULL" level) 2.5 L MT model: Approx. 6.8 l (7.2 US qt, 6.0 Imp qt) 2.5 L AT model: Approx. 6.7 l (7.1 US qt, 5.9 Imp qt) 3.0 L model Approx. 7.7 l (8.1 US qt, 6.8 Imp qt)

NOTE:

The SUBARU Genuine Coolant containing antifreeze and anti-rust agents is especially made for SUBARU engine, which has an aluminum crankcase. Always use SUBARU Genuine Coolant, since other coolant may cause corrosion.

9) Securely install radiator cap.

10) Run engine for more than five minutes at 2,000 to 3,000 rpm. (Run engine until radiator becomes hot in order to purge air trapped in cooling system.)

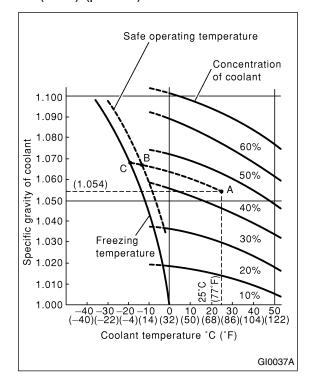
11) Stop engine and wait until coolant temperature lowers. Then open radiator cap to check coolant level and add coolant up to radiator filler neck. Next, add coolant into reservoir tank up to "FULL" level.

12) After adding coolant, securely install radiator and reservoir tank caps.

2. RELATIONSHIP OF SUBARU COOLANT CONCENTRATION AND FREEZING TEMPERATURE 5A07689A2002

The concentration and safe operating temperature of the SUBARU coolant is shown in the diagram. Measuring the temperature and specific gravity of the coolant will provide this information. [Example]

If the coolant temperature is 25° C (77°F) and its specific gravity is 1.054, the concentration is 35° (point A), the safe operating temperature is -14° C (7°F) (point B), and the freezing temperature is -20° C (-4° F) (point C).



3. PROCEDURE TO ADJUST THE CONCENTRATION OF THE COOLANT

SA07689A2003

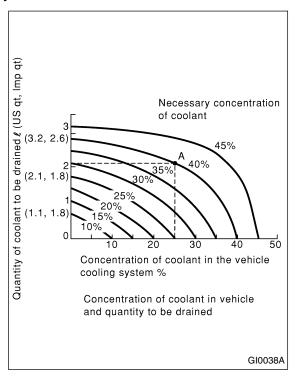
To adjust the concentration of the coolant according to temperature, find the proper fluid concentration in the above diagram and replace the necessary amount of coolant with an undiluted solution of SUBARU genuine coolant (concentration 50).

The amount of coolant that should be replaced can be determined using the diagram.

[Example]

Assume that the coolant concentration must be increased from 25% to 40%. Find point A, where the 25% line of coolant concentration intersects with the 40% curve of the necessary coolant concentration, and read the scale on the vertical axis of the graph at height A. The quantity of coolant to be drained is 2.1 liters (2.2 US qt, 1.8 Imp qt). Drain 2.1 liters (2.2 US qt, 1.8 Imp qt) of coolant from the cooling system and add 2.1 liters (2.2 US qt, 1.8 Imp qt) of the undiluted solution of SUBARU coolant.

If a coolant concentration of 50% is needed, drain all the coolant and refill with the undiluted solution only.



14. Idle Mixture SA07734

A: INSPECTION AND ADJUSTMENT

SA07734G26

1. IDLE MIXTURE SA07734G2601

Before measuring the idle mixture, make sure that the ignition timing and the engine idle speed are within specifications.

1) Set the gear position at "Neutral" for MT, or "N" or "P" for AT.

2) Warm up engine sufficiently until cooling fan starts to operate.

3) Measure the idle mixture with the CO meter.

Engine idle speed	CO
700±100 rpm	1.0±0.5%

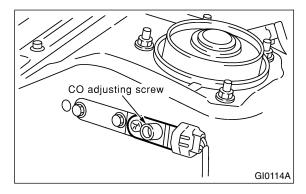
4) If out of specification, adjust the idle mixture using CO adjusting screw of mass air flow sensor.5) After adjusting the CO value, check and adjust increment coefficient of CO resistor by using Select Monitor.

(1) Select "Current data display & Save" on the select monitor.

(2) If out of specified data, adjust the increment coefficient of CO resistor while rotating CO adjusting screw.

Specified data:

0.28 — 4.22 V



NOTE:

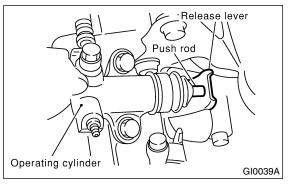
If driving the vehicle on out of specified data, the "trouble code 49" is indicated in many case.

15. Clutch System SA07690

A: INSPECTION AND ADJUSTMENT

SA07690G26

1) Push the release lever to retract the push rod of the operating cylinder and check if the fluid level in the clutch reservoir tank rises or not.



2) If the fluid level rises, pedal free play is correct.3) If the fluid level does not rise, or the push rod cannot be retracted, adjust the clutch pedal. <Ref. to CL-24 Clutch Pedal.>

4) Inspect the underside of master cylinder, clutch damper and operating cylinder for clutch system, hoses, piping and their couplings for fluid leaks. If fluid leaks are found, correct them by retightening their fitting bolt and/or replacing their parts.

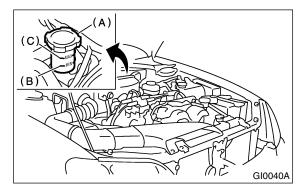
5) Check the fluid level using the scale on the outside of the clutch master cylinder tank (A). If the level is below "MIN" (B), add clutch fluid to bring it up to "MAX" (C).

Recommended clutch fluid: FMVSS No. 116, fresh DOT3 or DOT4 brake fluid

NOTE:

• Avoid mixing different brakes of brake fluid to prevent degradation of the fluid.

• Be careful not to allow dirt or dust to get into the reservoir tank.



16. Hill-holder System SA07735

A: INSPECTION AND ADJUSTMENT

SA07735G26

1) Confirm stopping and starting performance by activating hill-holder on an uphill road of 3° or higher inclination.

(1) When vehicle does not stop;

Tighten adjusting nut of PHV cable.

(2) When vehicle does not start properly;

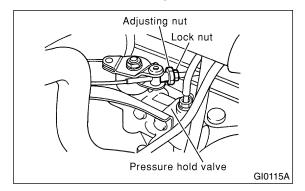
A; When hill-holder is released later than engagement of clutch (engine tends to stall): Loosen adjusting nut gradually until smooth starting is enabled.

B; When hill-holder is released earlier than engagement to clutch (vehicle slips down slightly): Tighten adjusting nut so that hill-holder is released later than engagement of clutch (status in A). Then make adjustment the same as in A.

NOTE:

• Whenever turning adjusting nut, hold inner cable with pliers to prevent it from turning.

• Replace pressure hold valve (PHV), return spring of PHV or PHV cable with new one, if they are defective and/or damaged.



17. Transmission Oil SA07691

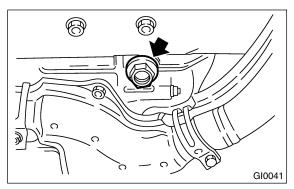
A: REPLACEMENT SA07691A20

1. MANUAL TRANSMISSION SA07691A2001

1) Drain gear oil by removing drain plug after allowing the engine to cool for 3 to 4 hours.

NOTE:

Before starting work, cool off the engine well.



2) Reinstall drain plug after draining gear oil and tighten it to the specified torque.

Tightening torque: 44 N⋅m (4.5 kgf-m, 32.5 ft-lb)

NOTE:

• Be sure to place a gasket between the transmission case and drain plug.

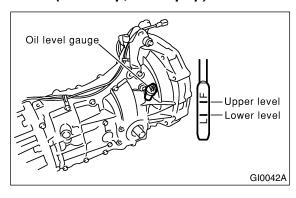
• Replace the gasket with a new one.

• Each oil manufacturer has its base oil and additives. Thus, do not mix two or more brands.

3) Fill transmission gear oil through the oil level gauge hole up to the upper point of level gauge.

Gear oil capacity:

Single range model 3.5 ℓ (3.7 US qt, 3.1 Imp qt) Dual range model 4.0 ℓ (4.2 US qt, 3.5 Imp qt)



18. ATF *sA07692*

A: REPLACEMENT SA07692A20

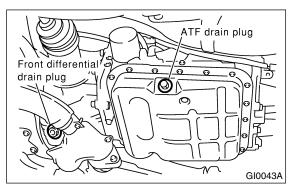
1. AUTOMATIC TRANSMISSION FLUID

SA07692A2001

1) Drain ATF (Automatic Transmission Fluid) by removing drain plug after allowing the engine to cool for 3 to 4 hours.

NOTE:

Before starting work, cool off the engine well.



2) Reinstall drain plug after draining ATF, and tighten it to the specified torque.

Tightening torque: 24.5 N⋅m (2.5 kgf-m, 18.1 ft-lb)

3) Fill ATF up to the middle of the "COLD" side on level gauge by using the gauge hole.

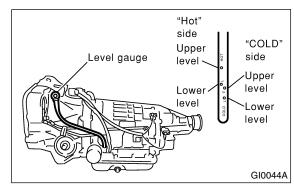
Recommended fluid:

Dexron III type automatic transmission fluid

Fluid capacity:

Fill the same amount drained from ATF drain plug hole.

4) Run the vehicle until the ATF temperature rises to 60 to 80°C (140 to 176°F) and check the ATF level.



2. ATF FILTER SA07692A2002

NOTE:

ATF filter is maintenance free part. ATF filter needs replacement, when it has physically damaged or ATF leaked.

For the replacement procedures of the ATF filter: <Ref. to AT-42 ATF Filter.>

Periodic Maintenance Services

19. Front & Rear Differential Oil

SA07693

A: REPLACEMENT SA07693A20

1. FRONT DIFFERENTIAL (MANUAL TRANSMISSION) SA07693A2001

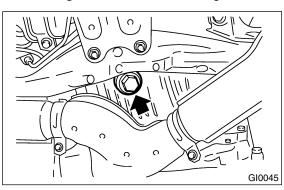
For M/T vehicle, manual transmission oil works as differential oil to lubricate differential. Refer to "Transmission Oil". <Ref. to PM-26 MANUAL TRANSMISSION, REPLACEMENT, Transmission Oil.>

2. FRONT DIFFERENTIAL (AUTOMATIC TRANSMISSION) SA07693A2002

1) Drain differential gear oil by removing drain plug after allowing the engine to cool for 3 to 4 hours.

NOTE:

Before starting work, cool off the engine well.



2) Reinstall drain plug after draining differential gear oil and tighten it to the specified torque.

Tightening torque: 44 N⋅m (4.5 kgf-m, 32.5 ft-lb)

NOTE:

• Be sure to place a gasket between the transmission case and drain plug.

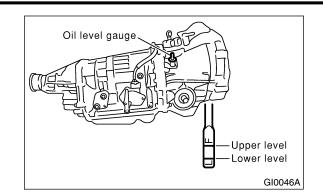
• Replace the gasket with a new one.

• Each oil manufacturer has its base oil and additives. Thus, do not mix two or more brands.

3) Fill differential gear oil through the oil level gauge hole up to the upper point of level gauge.

Differential gear oil capacity:

1.1 — 1.3 ℓ (1.2 — 1.4 US qt, 1.0 — 1.1 Imp qt)



3. REAR DIFFERENTIAL SA07693A2003

- 1) Drain oil by removing drain plug.
- 2) Remove filler plug for quick draining oil.
- 3) Reinstall drain plug after draining oil.

NOTE:

• Apply fluid packing to drain plug threads before installation in T-type.

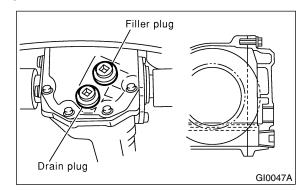
• VA-type uses a new aluminum gasket.

Fluid packing: Three Bond 1105

Tightening torque:

T-type: 49.0 N·m (5.0 kgf-m, 36.2 ft-lb) VA-type: 34 N·m (3.5 kgf-m, 25.3 ft-lb)

4) After installing drain plug onto rear differential gear case firmly, fill oil up fully to the mouth of filler plug.



Oil capacity:

0.8 ℓ (0.8 US qt, 0.7 Imp qt)

NOTE:

Each oil manufacturer has its base oil and additives. Thus, do not mix two or more brands. 5) Install filler plug onto rear differential gear case firmly.

NOTE:

• Apply fluid packing to filler plug before installation in T-type.

• VA-type uses a new aluminum gasket.

Fluid packing: Three Bond 1105

Tightening torque:

T-type: 49.0 N·m (5.0 kgf-m, 36.2 ft-lb) VA-type: 34 N·m (3.5 kgf-m, 25.3 ft-lb)

20. Brake Line SA07694

A: INSPECTION SA07694A10

1. BRAKE LINE SA07694A1001

1) Check scratches, swelling, corrosion and/or traces of fluid leakage on brake hoses or pipe joints.

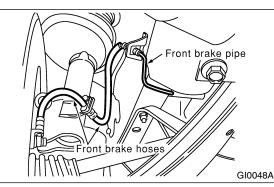
2) Check the possibility of adjacent parts interfering with brake pipes/hoses during driving, and loose connections/clamps.

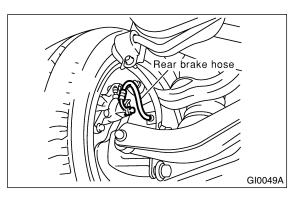
3) Check any trace of fluid leakage, scratches, etc. on master cylinder, wheel cylinder and pressure control valve.

NOTE:

• When the brake fluid level in the reservoir tank is lower than the specified limit, the brake fluid warning light on the combination meter will come on.

• Visually check brake hose (using a mirror where it is difficult to see) for any damage.





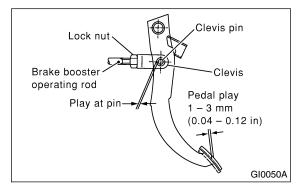
B: CHECKING SA07694G27

1. SERVICE BRAKE SA07694G2701

1) Check the free play of brake pedal with a force of less than 10 N (1 kgf, 2 lb).

Brake pedal free play:

1 — 3 mm (0.04 — 0.12 in)



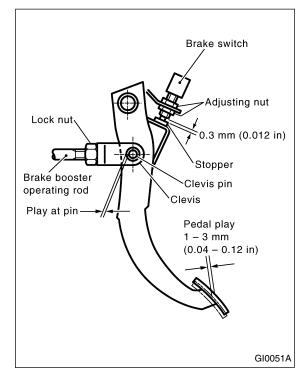
2) If the free play is out of specifications above, adjust the brake pedal as follows:

(1) Be sure engine is off. (No vacuum is applied to brake booster.)

(2) There should be play between brake booster clevis and pin at brake pedal installing portion.

[Depress brake pedal pad with a force of less than 10 N (1 kgf, 2 lb) to a stroke of 1 to 3 mm (0.04 to 0.12 in).]

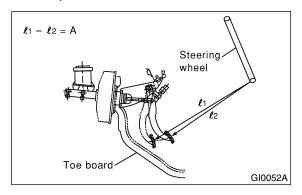
(3) Depress the surface of brake pad by hand.
(4) If there is no free play between clevis pin and clevis, turn brake switch adjusting nut until the clearance between stopper and screw of brake switch becomes 0.3 mm (0.012 in).



3) Check the pedal stroke.

While the engine is idling, depress the brake pedal with a 490 N (50 kgf, 110 lb) load and measure the distance between the brake pedal and steering wheel. With the brake pedal released, measure the distance between the pedal and steering wheel again. The difference between the two measurements must be less than 95 mm (3.74 in). If the distance is more than specified, there is a possibility air is in the inside of the hydraulic unit.

Brake pedal reserve distance: A more than 95 mm (3.74 in)/ 490 N (50 kgf, 110 lb)



4) Check to see if air is in the hydraulic brake line by the feel of pedal operation. If air appears to exist in the line, bleed it from the system.

5) Check for even operation of all brakes, using a brake tester or by driving the vehicle for a short distance on a straight road.

2. BRAKE SERVO SYSTEM SA07694G2702

1) With the engine off, depress the brake pedal several times applying the same pedal force: Make sure the travel distance should not change.

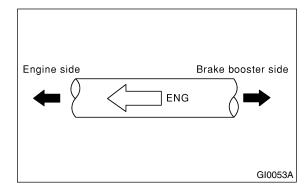
2) With the brake pedal depressed, start the engine: Make sure the pedal should move slightly toward the floor.

3) With the brake pedal depressed, stop the engine and keep the pedal depressed for 30 seconds: Make sure the pedal height should not change.

4) Check valve is built into vacuum hose. Disconnect vacuum hose to inspect function of check valve.

Blow air into vacuum hose from its brake booster side end: Air must flow out of engine side end of hose. Next blow air into hose from engine side: Air should not flow out of hose.

Replace both check valve and vacuum hose if check valve is faulty. Engine side of vacuum hose is indicated by marking "ENGINE" as shown.



5) Check vacuum hose for cracks or other damage.

NOTE:

When installing the vacuum hose on the engine and brake booster, do not use soapy water or lubricating oil on their connections.

6) Check vacuum hose to make sure it is tight and secure.

21. Brake Fluid SA07162

A: REPLACEMENT SA07162A20

1) Either jack up vehicle and place a safety stand under it, or lift up vehicle.

2) Remove both front and rear wheels.

3) Draw out the brake fluid from master cylinder with syringe.

4) Refill reservoir tank with recommended brake fluid.

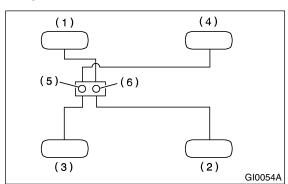
Recommended brake fluid:

FMVSS No. 116, fresh DOT3 or 4 brake fluid

NOTE:

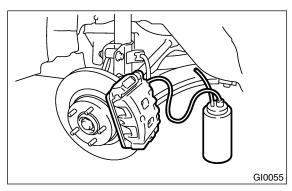
• Avoid mixing different brands of brake fluid to prevent degrading the quality of the fluid.

• Be careful not to allow dirt or dust to get into the reservoir tank.



- (1) Front right
- (2) Rear left
- (3) Front left
- (4) Rear right
- (5) Secondary
- (6) Primary

5) Install one end of a vinyl tube onto the air bleeder and insert the other end of the tube into a container to collect the brake fluid.



NOTE:

• Cover bleeder with waste cloth, when loosening it, to prevent brake fluid from being splashed over surrounding parts.

• During bleeding operation, keep the brake reserve tank filled with brake fluid to eliminate entry of air.

• Brake pedal operation must be very slow.

• For convenience and safety, it is advisable to have two men working.

• The amount of brake fluid required is approximately 500 m ℓ (16.9 US fl oz, 17.6 Imp fl oz) for total brake system.

6) Instruct your co-worker to depress the brake pedal slowly two or three times and then hold it depressed.

7) Loosen bleeder screw approximately 1/4 turn until a small amount of brake fluid drains into container, and then quickly tighten screw.

8) Repeat steps 6) and 7) above until there are no air bubbles in drained brake fluid and new fluid flows through vinyl tube.

NOTE:

Add brake fluid as necessary while performing the air bleed operation, in order to prevent the tank from running short of brake fluid.

9) After completing the bleeding operation, hold brake pedal depressed and tighten screw and install bleeder cap.

Tightening torque: 8 N⋅m (0.8 kgf-m, 5.8 ft-lb)

10) Bleed air from each wheel cylinder by following the previous 5 steps.

11) Depress brake pedal with a force of approximately 294 N (30 kgf, 66 lb) and hold it there for approximately 20 seconds. At this time check pedal to see if it makes any unusual movement. Visually inspect bleeder screws and brake pipe joints to make sure that there is no fluid leakage.

12) Install wheels, and drive vehicle for a short distance between 2 to 3 km (1 to 2 miles) to make sure that brakes are operating properly.

Bleeding sequence (1) \rightarrow (2) \rightarrow (3) \rightarrow (4)

22. Disc Brake Pads and Discs

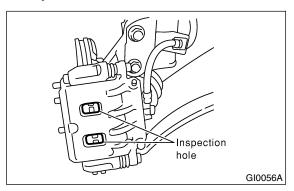
SA07695

A: INSPECTION SA07695A10

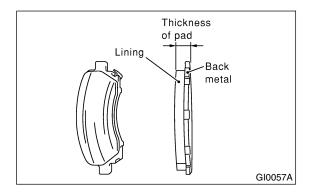
1. DISC BRAKE PAD AND DISC SA07695A1001

1) Jack up vehicle and support with rigid racks. Then remove wheels.

2) Visually check pad thickness through inspection hole of disc brake assembly. Replace pad if necessary.



Pad thickness including back metal mm (in)			
	Front	Rear	
Standard	17 (0.67)	14 (0.55)	
Service limit	7.5 (0.295)	6.5 (0.256)	
Service limit (exclusive back metal)	1.5 (0.059)	1.5 (0.059)	



3) Check the disc rotor, and correct or replace if it is damaged or worn.

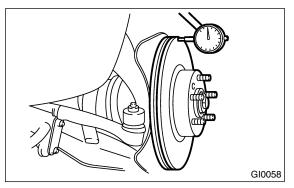
Brake disc thickness mm (in)		
	Front	Rear
Standard	24 (0.94)	10 (0.39)
Wear limit	22 (0.87)	8.5 (0.335)

4) Measure the disc rotor runout at a point less than 5 mm (0.20 in) from the outer periphery of the rotor.

Disc rotor runout limit: Front: 0.075 mm (0.0030 in) Rear: 0.075 mm (0.0030 in)

NOTE:

When replacing a pad, always replace the pads for both the left and right wheels at the same time. Also replace pad clips if they are twisted or worn.



23. Brake Linings and Drums

SA07696

A: INSPECTION SA07696A10

1. REAR DRUM BRAKE SA07696A1001

1) Remove brake drum, and check that there is no fluid leakage from wheel cylinder.

If there is fluid leakage from wheel cylinder, replace it.

2) Inspect brake shoes for damage or deformities and check brake linings for wear.

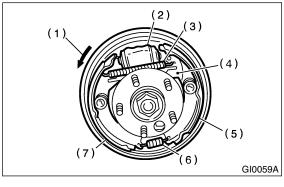
NOTE:

• Always replace both leading and trailing brake shoes for the left and right wheels at the same time.

• When either the left or the right brake assembly is replaced, always replace the leading shoe and trailing shoe of the other.

• The cotter pin, once removed, cannot be reused.

Thickness of lining (except back metal) Standard value: 4.1 mm (0.161 in) Service limit: 1.5 mm (0.059 in)



- (1) Rotational direction of drum (Forward)
- (2) Wheel cylinder
- (3) Upper shoe return spring
- (4) Adjusting lever
- (5) Trailing shoe
- (6) Lower shoe return spring
- (7) Leading shoe

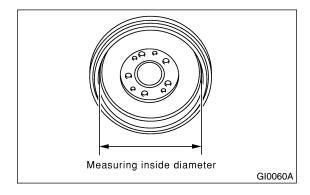
To replace trailing shoe, remove cotter pin. Clevis pin should also be replaced if worn.

3) Check brake drum for wear, dents or other damage.

If the inside surface of brake drum is streaked, correct the surface with emery cloth (#200 or more). If it is unevenly worn, tapered, or the outside surface of brake drum is damaged, correct or replace it.

Brake drum inner diameter Standard value: 228.6 mm (9.000 in) Service limit: 230.6 mm (9.079 in)

If deformation or wear of back plate, shoe, etc. is noticeable, replace the affected parts.



2. PARKING BRAKE (REAR DISC BRAKE)

SA07696A1002

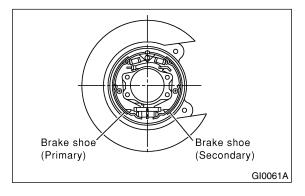
Inspect brake linings and drums of both sides of the rear brake at the same time by removing brake drums.

1) Inspect brake shoes for damage or deformation and check brake linings for wear.

NOTE:

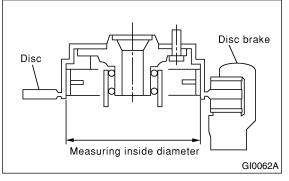
Always replace both primary and secondary brake shoes for the left and right wheels at the same time.

Brake lining thickness excluding back metal Standard value: 3.2 mm (0.126 in) Wear limit: 1.5 mm (0.059 in)



2) Check brake drum for wear, dents or other damage. If the inside surface of brake drum is streaked, correct the surface with emery cloth (#200 or more). If it is unevenly worn, tapered, or the outside surface of brake drum is damaged, correct or replace it.

Brake drum inside diameter Standard value: 170 mm (6.69 in) Wear limit: 171 mm (6.73 in)



3) If the deformation or wear of back plate, shoe, etc. is noticeable, replace them.

4) When the shoe return spring tension is excessively weakened, replace it, taking care to identify upper and lower springs.

B: ADJUSTMENT SA07696A01

1. REAR DRUM BRAKE SA07696A0101

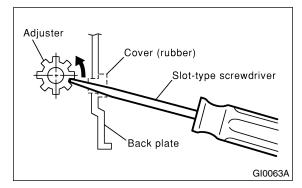
The main brake is adjusted automatically, and so there is no need to adjust it.

2. PARKING BRAKE (REAR DISC BRAKE) SA07696A0102

For rear disc brake, adjust parking brake after bleeding the air.

1) Remove rear cover (rubber) installed at back plate.

2) Turn adjuster toward arrow mark (upward) until it is locked slightly, by using slot-type screwdriver as shown in illustration.



3) Turn back (downward) adjuster 3 to 4 notches.4) Install cover (rubber) at original position correctly.

24. Suspension SA07697

A: INSPECTION SA07697A10

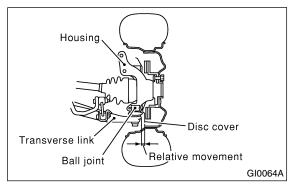
1. SUSPENSION BALL JOINT SAUTOSTA1001

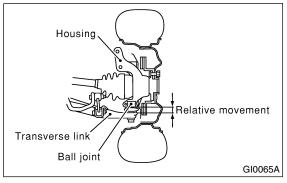
1) Jack up vehicle until front wheels are off ground.

2) Next, grasp bottom of tire and move it in and out. If relative movement is observed between brake disc cover and end of transverse link, ball joint may be excessively worn.

3) Next, grasp end of transverse link and move it up and down. Relative movement between housing and transverse link boss indicates ball joint may be excessively worn.

4) If relative movement is observed in the immediately preceding two steps, remove and inspect ball joint. If free play exceeds standard, replace ball joint. <Ref. to FS-14 Front Ball Joint.>





5) Damage of dust seal

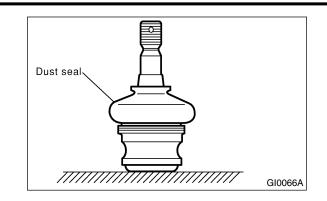
Visually inspect ball joint dust seal. If it is damaged, remove transverse link. <Ref. to FS-11 Front Transverse Link.> And measure free play of ball joint. <Ref. to FS-14 Front Ball Joint.>

(1) When looseness exceeds standard value, replace ball joint.

(2) If the dust seal is damaged, replace with the new ball joint.

NOTE:

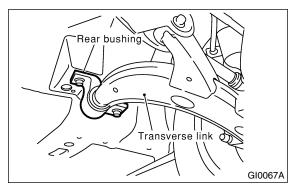
When transverse link ball joint has been removed or replaced, check toe-in of front wheel. If front wheel toe-in is not at specified value, adjust toe-in. <Ref. to FS-6 Wheel Alignment.>



2. TRANSVERSE LINK'S REAR BUSHING

SA07697A1002

Check oil leaks at around liquid-filled bushing. If oil leaks, replace bushing.



3. WHEEL ARCH HEIGHT SA07697A1003

1) Unload cargoes and set vehicle in curb weight (empty) condition.

2) Then, check wheel arch height of front and rear suspensions to ensure that they are within specified values.

3) When wheel arch height is out of standard, visually inspect following components and replace deformed parts.

• Suspension components [Front strut assembly and rear shock absorber assembly]

• Body parts to which suspensions are installed.

4) When no components are deformed, adjust wheel arch height by replacing coil spring in the suspension whose wheel arch height is out of standard. <Ref. to FS-6 Wheel Alignment.> <Ref. to RS-8 Wheel Alignment.>

4. WHEEL ALIGNMENT OF FRONT SUSPENSION SA07697A1004

1) Check alignment of front suspension to ensure that following items conform to standard values.

- Toe-in
- Camber angle
- Caster angle
- Steering angle

<Ref. to FS-6 Wheel Alignment.>

2) When caster angle does not conform to standard value, visually inspect following components and replace deformed parts.

• Suspension components [Strut assembly, crossmember, transverse link, etc.]

• Body parts to which suspensions are installed.

3) When toe-in and camber are out of standard value, adjust them so that they conform to respective service standard.

4) When right-and-left turning angles of tire are out of standard, adjust to standard value.

5. WHEEL ALIGNMENT OF REAR SUSPENSION SA07697A1005

1) Check alignment of rear suspension to ensure that following items are within standard values.

- Toe-in
- Camber angle
- Thrust angle

<Ref. to RS-8 Wheel Alignment.>

2) When camber angle does not conform to standard value, visually inspect parts listed below. If deformation is observed, replace damaged parts.

- Suspension components [Shock absorber, link F, link R, link UPR, arm R, sub frame, etc.]
- Body parts to which suspensions are installed.

3) When toe-in and thrust angle are out of standard value, adjust them so that they conform to respective service standard.

6. OIL LEAKAGE OF STRUT AND SHOCK ABSORBER 5407697A1006

Visually inspect front strut and rear shock absorber for oil leakage as instructed. Replace front strut

and rear shock absorber if oil leaks excessively.

7. TIGHTNESS OF BOLTS AND NUTS

SA07697A1007

Check bolts and nuts shown in the figure for looseness. Retighten bolts and nuts to specified torque. If self-lock nuts and bolts are removed, replace them with new ones.

Front suspension: <Ref. to FS-2 General Description.>

Rear suspension: <Ref. to RS-2 General Description.>

8. DAMAGE TO SUSPENSION PARTS

SA07697A1008

1) Check the following parts and the fastening portion of the vehicle body for deformation or excessive rusting which impairs the suspension. If necessary, replace damaged parts with new ones. If minor rust formation, pitting, etc. are noted, remove rust and apply remedial anti-corrosion measures.

- Front suspension
 - Transverse link
 - Crossmember
 - Strut
- Rear suspension
 - Sub frame
 - Link F
 - Link R
 - Link UPR
 - Arm R
 - Shock absorber

• In the district where salt is sprayed to melt snow on a road in winter, check suspension parts for damage caused by rust every 12 months after lapse of 60 months. Take rust prevention measure as required.

25. Wheel Bearing SAOT698

A: INSPECTION SA07698A10

1. FRONT WHEEL BEARING SAUTGBBA 1001

NOTE:

Inspect the condition of front wheel bearing grease.

1) Jack up the front of vehicle.

2) While holding front wheel by hand, swing it in and out to check bearing free play.

3) Loosen wheel nuts and remove front wheel.

4) If bearing free play exists in step 2) above, attach a dial gauge to hub assembly and measure axial displacement in axial direction.

Service limit:

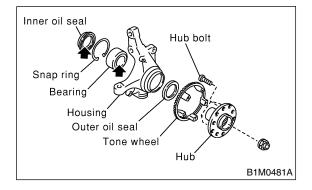
Straight-ahead position within 0.05 mm (0.0020 in)

5) Remove bolts and self-locking nuts, and extract transverse link from front crossmember.

6) While lightly hammering spring pin which secures S.F.J. to transmission spindle, remove it.
7) Extract S.F.J. from transmission spindle. <Ref. to DS-16 Front Axle.>

8) While supporting front drive shaft horizontally with one hand, turn hub with the other to check for noise or binding.

If hub is noisy or binds, disassemble front axle and check condition of oil seals, bearing, etc.



2. REAR WHEEL BEARING SA0769BA1002

1) Jack up the rear of vehicle.

2) While holding rear wheel by hand, swing it in and out to check bearing free play.

3) Loosen wheel nuts and remove rear wheel.

4) If bearing free play exists in step 2) above, attach a dial gauge to hub assembly and measure axial displacement in axial direction.

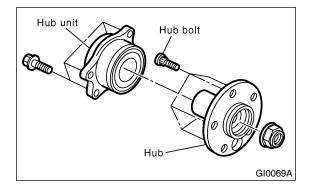
Service limit:

Straight-ahead position within 0.05 mm (0.0020 in)

5) Remove the DOJ of rear drive shaft from rear differential. <Ref. to DS-33 Rear Drive Shaft.>

6) While supporting rear drive shaft horizontally with one hand, turn hub assembly with the other to check for noise or binding.

If hub assembly is noisy or binds, disassemble rear axle and check condition of oil seals, bearings, etc.

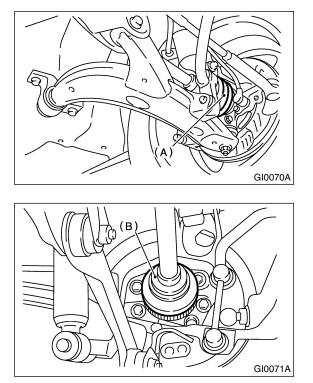


26. Axle Boots & Joints SA07699

A: INSPECTION SA07699A10

1. FRONT AND REAR AXLE BOOTS SA07699A1001

Inspect front axle boots (A) and rear axle boots (B) for deformation, damage or failure. If faulty, replace them with new ones. <Ref. to DS-28 Front Drive Shaft.> <Ref. to DS-33 Rear Drive Shaft.>



2. PROPELLER SHAFT SA07699A1002

Inspect propeller shaft for damage or failure. If faulty, replace with new one. <Ref. to DS-13 Propeller Shaft.>

Periodic Maintenance Services

27. Steering System (Power Steering) SA07701

A: INSPECTION SA07701A10

1. STEERING WHEEL SA07701A1001

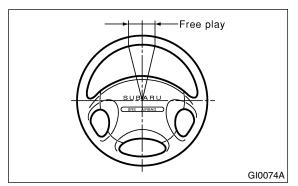
1) Set steering wheel in a straight-ahead position, and check wheel spokes to make sure they are correctly set in their specified positions.

2) Lightly turn steering wheel to the left and right to determine the point where front wheels start to move.

Measure the distance of the movement of steering wheel at the outer periphery of wheel.

Steering wheel free play:

0 — 17 mm (0 — 0.67 in)



Move steering wheel vertically toward the shaft to ascertain if there is play in the direction.

Maximum permissible play: 0.5 mm (0.020 in)

3) Drive vehicle and check the following items during operation.

(1) Steering force

The effort required for steering should be smooth and even at all points, and should not vary.

(2) Pull to one side

Steering wheel should not be pulled to either side while driving on a level surface.

(3) Wheel runout

Steering wheel should not show any sign of runout.

(4) Return factor

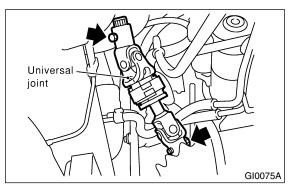
Steering wheel should return to its original position after it has been turned and then released.

Maximum permissible play: 0.5 mm (0.020 in)

2. STEERING SHAFT JOINT SA07701A1002

1) When steering wheel free play is excessive, disconnect universal joint of steering shaft and check it for any play and yawing torque (at the point of the crossing direction). Also inspect for any damage to sealing or worn serrations. If the joint is loose, retighten the mounting bolts to the specified torque.

Tightening torque: 24 N⋅m (2.4 kgf-m, 17.4 ft-lb)

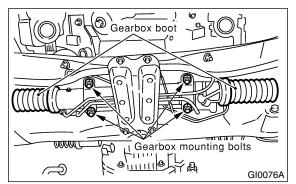


3. GEARBOX SA07701A1003

1) With wheels placed on a level surface, turn steering wheel 90° in both the left and right directions.

While wheel is being rotated, reach under vehicle and check for looseness in gearbox.

Tightening torque: 59 N·m (6.0 kgf-m, 43.4 ft-lb)



2) Check boot for damage, cracks or deterioration.

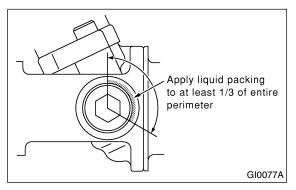
3) With vehicle on a level surface, quickly turn steering wheel to the left and right.

While steering wheel is being rotated, check the gear backlash. If any unusual noise is noticed, adjust the gear backlash in the following manner.

(1) Tighten adjusting screw to 7.4 N·m (0.75 kgf-m, 5.4 ft-lb) and then loosen. Repeat this operation twice.

(2) Retighten adjusting screw to 7.4 N·m (0.75 kgf-m, 5.4 ft-lb) and back off 25° .

(3) Apply liquid packing to at least 1/3 of entire perimeter of adjusting screw thread.



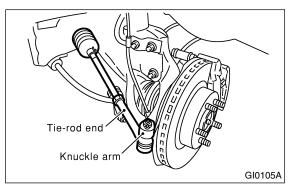
(4) Install lock nut. While holding adjusting screw with a wrench, tighten lock nut using ST.ST 926230000 SPANNER

Tightening torque (Lock nut): 39 N⋅m (4.0 kgf-m, 29 ft-lb)

Hold the adjusting screw with a wrench to prevent it from turning while tightening the lock nut.

4. TIE-ROD SA07701A1004

1) Check tie-rod and tie-rod ends for bends, scratches or other damage.



2) Check connections of knuckle ball joints for play, inspect for damage on dust seals, and check free play of ball studs. If castle nut is loose, retighten it to the specified torque, then tighten further up to 60° until cotter pin hole is aligned.

Tightening torque:

27 N·m (2.75 kgf-m, 19.9 ft-lb)

3) Check lock nut on the tie-rod end for tightness. If it is loose, retighten it to the specified torque.

Tightening torque: 83 N⋅m (8.5 kgf-m, 61.5 ft-lb)

5. POWER STEERING FLUID LEVEL

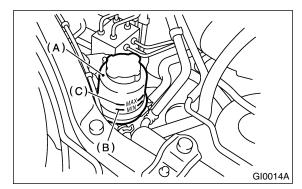
SA07701A1005

NOTE:

The fluid level must be checked when the temperature of the reservoir tank surface is approximately $20^{\circ}C$ (68°F).

1) Place vehicle with engine "off" on the flat and level surface.

2) Check the fluid level using the scale on the outside of the reservoir tank (A). If the level is below "MIN" (B), add fluid to bring it up to "MAX" (C).



NOTE:

If fluid level is at MAX level or above, drain fluid to keep the level in the specified range of indicator by using a syringe or the like.

Recommended fluid: Dexron IIE or III

Fluid capacity: 0.7 ℓ (0.7 US qt, 0.6 Imp qt)

6. POWER STEERING FLUID FOR LEAKS

SA07701A1006

Inspect the underside of oil pump and gearbox for power steering system, hoses, piping and their couplings for fluid leaks.

If fluid leaks are found, correct them by retightening their fitting bolts (or nuts) and/or replacing their parts.

NOTE:

• Wipe the leakage fluid off after correcting fluid leaks, or a wrong diagnosis is taken later.

• Also pay attention to clearances between hoses (or pipings) and other parts when inspecting fluid leaks.

Periodic Maintenance Services

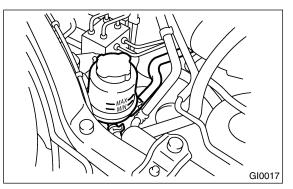
7. HOSES OF OIL PUMP FOR DAMAGES

SA07701A1007

Check pressure hose and return hose of oil pump for crack, swell or damage. Replace hose with new one if necessary.

NOTE:

Prevent hoses from revolving and/or turning when installing hoses.



8. POWER STEERING PIPES FOR

DAMAGE SA07701A1008

Check power steering pipes for corrosion and damage.

Replace pipes with new one if necessary.

9. GEARBOX BOOTS SA07701A1009

Inspect both sides of gearbox boots as follows, and correct the defects if necessary.

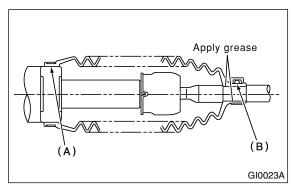
1) (A) and (B) positions of gearbox boot are fitted correspondingly in (A) and (B) grooves of gearbox and the rod.

2) Clips are fitted outside of (A) and (B) positions of boot.

3) Boot does not have crack and hole.

NOTE:

Rotate (B) position of gearbox boot against twist of it produced by adjustment of toe-in, etc.



10. FITTING BOLTS AND NUTS SA07701A1010

Inspect fitting bolts and nuts of oil pump and bracket for looseness, and retighten them if necessary.

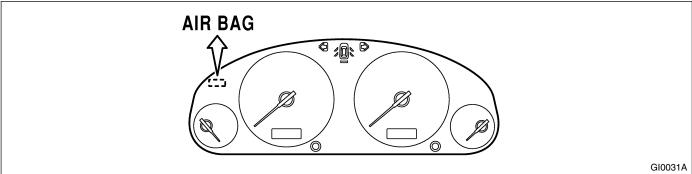
Inspect and/or retighten them when engine is cold.

28. Supplemental Restraint System SA07702

A: INSPECTION SA07702A10

Check the airbag system in accordance with the result of the self-diagnosis. <Ref. to AB-2 Basic Diagnostic Procedure.>

1) Ensure that airbag connectors are connected. If not, properly connect (also double lock the connector). When the ignition switch is turned ON with the connector(s) disconnected, the airbag warning light blinks to identify the fault.



2) Turn the ignition switch ON, and connect the airbag diagnosis terminal of the service connector (located below lower cover) to the ground terminal.

3) The warning light blinks to indicate a trouble code (a fault is identified). When the airbag system is in good order (no trouble codes are stored in the memory), the warning light blinks on and off at 0.6 second intervals (as long as the diagnosis terminal is connected to the ground terminal).

4) When the warning light indicates a trouble code, check the airbag system in accordance with the troubleshooting procedure. <Ref. to AB-2 Basic Diagnostic Procedure.>

Periodic Maintenance Services

MEMO: